

# **DELHI PUBLIC SCHOOL, BHILAI**

DATE: 06.12.2024

Name:

CLASS : XII

# PREBOARD EXAMINATION 2024-'25 SUBJECT – ENGLISH CORE

Ti	me	: 3	Hrs.	
Max.	Ma	rks	: 80	)

Roll No. : \_\_\_\_\_

# General Instructions:

Read the following instructions very carefully and strictly follow them:

- . This question paper has 13 questions. All questions are compulsory.
- ii. This question paper contains three sections:

Section A: Reading Skills,

Section B: Creative Writing Skills

Section C: Literature

- iii. Attempt all questions based on specific instructions for each part. Write the correct question number and part thereof in your answer sheet.
- iv. Separate instructions are given with each question/part, wherever necessary.
- v. Adhere to the prescribed word limit while answering the questions.

# Section A: Reading Skills (22 Marks)

1. Reading the following passage carefully.

(12)

- Road safety rules are essential guidelines designed to protect the lives of motorists, pedestrians, and cyclists, ensuring safe and orderly traffic flow on our roads. These rules encompass a wide range of regulations and best practices aimed at minimising accidents, injuries and fatalities.
- 2. One fundamental road safety rule is obeying traffic signals and signs. Reducing speed and stopping at red lights, yielding to pedestrians at crosswalks and following directional signs contribute to orderly traffic movement and prevent collisions. Similarly, adhering to speed limits is crucial, as speeding significantly reduce the likelihood of fatalities and serious injuries.
- 3. Another critical aspect of road safety is wearing seat belts and helmets. Seat belts save lives by preventing occupants from being ejected during crashes, while helmets protect motorcyclist and cyclists from head injuries in the event of accidents. These simple safety measures can significantly reduce the likelihood of fatalities and serious injuries.
- 4. Additionally, maintaining a safe distance between vehicles is paramount for avoiding rear-end collisions. The 'two-second rule', where drivers maintain a distance equivalent to two seconds behind the vehicle in front, allows for adequate reaction time and braking distance, reducing the risk of accidents, especially in adverse weather conditions.
- 5. Moreover, avoiding distractions while driving, such as texting, talking on the phone, or adjusting the radio, is crucial for maintaining focus on the road. Distracted driving is a leading cause of accidents and can have devastating consequences. Therefore, drivers must prioritise their attention on driving and minimise distractions to ensure for themselves and others.
- 6. Furthermore, driving under the influence of alcohol or drugs is not only illegal but also extremely dangerous. Impaired drivers have reduced reaction times, impaired judgment, and compromised motor skills, posing a significant risk to themselves and other road users. Strict enforcement of laws against drunk driving and promoting public awareness campaigns about the dangers of driving under the influence are essential for preventing alcohol-related accidents.
- 7. In conclusion, road safety rules play a vital role in promoting safer roads and reducing the number of accidents and fatalities. By following these rules, drivers can contribute to creating a culture of safety and responsibility on our roads, ultimately saving lives and preventing injuries.

End in the importance of chaving speed limits and wearing seat helts and helmets in

# Answer the following questions based on the above passage.

(1)	ensuring road safety.	(1)
(ii)	What is a fundamental road safety rule mentioned in the passage?	(1)
(iii)	Choose the word that best describes the tone of the above passage.  (a) Instructive  (b) Informative	(1)
(iv)	Complete the following sentence with an appropriate word.  'Road safety rules play a vital role in promoting safer roads and reducing the	(1)
(v)	What is a leading cause of accidents mentioned in the passage?  (a) Adhering to speed limits  (b) Driving under the influence of alcohol or drugs  (c) Using seat belts and helmets  (d) Following traffic signals	(1)
(vi)	Why is maintaining a safe distance between vehicles important?	(1)
(vii)	How does distracted driving contribute to road accidents and what measures can drivers t	ake
()	to minimise distractions?	(2

(c) Driving under the influence of alcohol is dangerous

(d) Both (b) and (c)

(x) How do road safety rules contribute to reducing accidents?

(2)

### 2. Reading the following passage carefully.

10

- Introduction: In the hasty lifestyle of today's world, the choice of snacks can greatly impact one's
  health and well-being. This case study aims to analyse the preference for seasonal fruits compared
  to packaged snacks among different age groups and the implications for overall health.
- 2. Methodology: A survey was conducted among individuals across various age groups, ranging from children to seniors, to determine their snacking preferences. Participants were asked to indicate their preferred snack choices and provide reasons for their preferences. The data was then analysed to identify trends and patterns among different age demographics.
- Survey Examinations: The survey encompassed a comprehensive examination of snacking habits, influences guiding these choices. Beyond mere preference, participants were encouraged to articulate the reasons behind their selections, providing invaluable insights into the multifaceted nature of snacking behaviour.
- 4. Results: The survey results revealed interesting insights into snacking preferences among different age groups.

Age-group	%	Preferred snack	Reasons for preference
Children	77	Seasonal fruits	Taste, Health benefits, Parental guidance
Teenagers	65	Packaged snacks	Convenience, Taste, Peer influence
Young adults	52	Seasonal fruits and packaged snacks	Transitional lifestyle (College, beginning careers, and establishing independence), Health consciousness, Convenience
Middle-aged	83	Seasonal fruits	Freshness, Nutrition, Health consciousness
Elderly	90	Seasonal fruits	Health benefits, Digestive ease

- 5. Implications for Interventions: By discerning the diverse preferences among different age groups, policy makers and health practitioners can tailor interventions to address specific demographic needs. For instance, targeting educational campaigns towards parents could empower them to instil healthy eating habits in their children from an early age. Concurrently, efforts to mitigate the influence of advertising and peer pressure on teenagers could involve regulatory measures and educational initiatives aimed at promoting critical thinking and informed decision-making. Furthermore, the prominence of seasonal fruits as a preferred snack choice among middle-aged adults and seniors points towards the importance of promoting access to fresh produce and nutritional education across all age demographics.
- 6. Conclusion: The survey outcomes serve as a roadmap for designing targeted interventions that not only cater to diverse demographic needs but also nurture a culture of health and well-being. By harnessing the insights gleaned from this study, stakeholders can collaboratively work towards building healthier communities and promoting sustainable practices for generations to come.

Answer the following questions, based on the given passage.

(ii) What would the following be classified as? To examine snacking preferences across various age groups in detail, and assess health implications.

Select the appropriate response.

(a) Primary purpose (b)

(b) Secondary objective

(c) Method of analysis

(d) Research outcome

(iii) Give two points to support why it is likely that fresh fruits were given as an option to the survey participants to choose from, in the study on snacking preferences.

(iv) Paragraph 3 includes words – 'motivations' and 'influences'.
Classify the following sentences as 'motivation' or 'influence'
Sentence 1 Peer pressure leads teenagers to prefer packaged snacks over healthier options.
Sentence 2 The drive to maintain health as one ages makes middle-aged adults to choose seasonal fruits.

Contd...3

(2)

(v) Read the following:

Seema regularly enjoys snacking on chips and cool drinks while watching movies. Mohan, her neighbour, prefers to snack on oranges and also some nuts occasionally. Arindam, who lives across, often tends to eat a mix of carrot sticks and instant noodles, in between meals.

Select the option that identifies the correct demographic. Seema, Mohan and Arindam belong to:

- (a) Seema young adult; Mohan teenager; Arindam middle-age
- (b) Seema teenager; Mohan middle=age; Arindam child
- (c) Seema young adult; Mohan child; Arindam teengager
- (d) Seema teenager, Mohan elderly; Arindam yound adult
- Although children, middle-aged, and elderly groups all prefer seasonal fruits, why is the (vi) preference percentage highest among the elderly? (1)
- Analyse how targeted interventions based on the diverse snacking preferences of different age (vii) groups can lead to improved health outcomes. (Paragraph 5) (2)
- (viii) What is the ultimate goal for stakeholders, based on the insights from the study? (1)
  - (a) Increase profitability through enhanced snack marketing
    - (b) Building healthier communities
    - (c) Reducing the cost of healthcare services
    - (d) Expanding the range of available snack product

Section B: Creative Writing Skills (18 Marks)

3. Attempt any one of the two, (a) or (b), in about 50 words.

(a) The problem of residents' parking of vehicles often leading to minor scuffles and arguments has become a source of growing concern. As Anuj Verma/Anuja Verma, Secretary of Smart Living Society, Tara Bagh, Raipur write a notice informing the residents about a meeting to discuss the problem and find an acceptable solution. Invent all necessary details

OR

(b) There has been an increase in the number of cyber bullying cases amongst school students. This has led to parents and students getting very anxious. As David Green, the school captain, you are arranging for a talk during the morning assembly by Mr Tom Brown, Director, Cyber Crime Department, inviting both students and parents for the same .Draft a notice in about 50 words informing the students, mentioning the day, date, time and venue.

4 Attempt anyone of the two, (a) or (b), in about 50 words.

(a) Draft an invitation card inviting friends to an exhibition cum sale of handmade candles and small earthen lamps. Include necessary details regarding the event. You are Anila Das/Anil Das the Director of Handicrafts Pvt . Ltd.

(b) You are Mira Malik/ Manohar Malik, a celebrated short story writer . You have been invited by the Literary Club of Sunshine Public School Nagpur to deliver a lecture on the Importance of Literature in Life. Draft a formal acceptance of the invitation in about 50 words. Address it to the Principal.

5. Attempt any one of the two, (a) or (b), in 120 - 150 words.

(a) Many people, while travelling do not follow standard norms such as standing in queues, keeping their surroundings clean and maintaining a certain level of silence that shows respect for everyone's space. This leads others to have an unpleasant and unsafe experience. Write a letter to the editor of a national daily describing the problem and examining this improper behaviour. Provide suggestions for how such behaviour can be improved .Use the following cues along with your own ideas to compose the letter. You are Arunima/Pankaj a concerned Indian citizen.

> Examples of improper behaviour not maintaining proper queues throwing rubbish on the floor shoving or pushing while handling baggage watching videos without earphones or talking loudly Consequences cause chaos and anxiety physical injuries due to luggage manhandling dirty and unhygienic surroundings disrupting the peace of the place

> > OR

(b) The Nehru Foundation is recruiting graduates for an intensive leadership training program during the summer in villages across India . You are Madhumita/Mohanlal from Ratnagiri - Institute of Higher Studies, Bilaspur . You saw the given advertisement in the newspaper and wish to apply for the position advertised.

Leadership Training Programme

Graduates required by Nehru Foundation

Whom do we need

Fresh graduates in any discipline

Skills -Excellent communication skills both written and verbal

Fluent in languages- English and state language

Age 21-24 years

Early response solicited

6. Attempt any one of the two (a) or (b), in 120 to 150 words.

(a) A recent survey by a website shows that about 55% of the Indian adults sleep less than 6 hours everyday. This is a worrying statistic as the scientifically recommended amount of sleep is 8 to 10 hours. The study notes that there is a direct relationship between sleep and mental health wherein both impact each other. As Purva/ Purvinder draft an article in 120 to 150 words on the importance of adequate sleep and the possible causes of poor sleep. You can use the following cues along with your own ideas.

food, stress, anxiety, cause poor sleep sleep clears toxins, improves memory maintains and builds immunity

#### OR

(b) You are Ramesh /Meera. The Career Counselling Department of your school recently organised a talk on 'Possible Career Options: Science ,Commerce, Arts or Humanities 'for the students of classes 11 and 12. You attended the event on 1 December 2024. Draft a report covering the talk for the news letter of your school. Support your ideas with the cues given below –

purpose of the talk
who attended the talk
aim of the talk and the main points that were made
primary take away from the talk
post- talk references given to attendees
the impact the talk had on the attendees

# Section C: Literature (40 Marks)

7. Read the following extracts and answer the questions for any one of the two, (a) or (b):

1x6=6

- (a) If we were not so single-minded about keeping our lives moving and for once could do nothing perhaps a huge silence might interrupt this sadness of never understanding ourselves and of threatening ourselves with death
  - (i) Whom does 'we 'refer to in the above lines?

(ii) Why does the poet want us to 'do nothing 'for once?

(a) To proliferate brotherhood

(b) To give rest to our body for a few minutes

(c) To introspect ourselves

(d) None of these

- (iii) What is man single-minded about?
- (iv) What does' keeping our life moving 'mean?
- (v) Identify the poetic device used in the last four lines of the stanza.

(a) Alliteration

(b) Repetition

(c) Enjambment

(d) Consonance

(vi) What is the hope in the poet's mind?

(a) Man would become less interested in others.

- (b) Man would begin to focus more on keeping his life moving.
- (c) Man would begin to be more humane if he begins to introspect.
- (d) Man would develop new ideas to destroy each other.

#### OR

(b) ... she
looked but soon
put that thought away and looked out at Young
Trees sprinting, the merry children
spilling out of their homes...

- (i) Which poetic device has been used in 'Trees sprinting '?
- (ii) What did the poet realise?

(iii) How did she feel when she realized that her mother is getting old?

(a) she was fine with it

(b) she tried to divert her thoughts

(c) this feeling was hard for her to accept

(d) none of these

(iv) What did she do then?

(v) What does the poem not revolve around?

(a) Poet's fears

(b) Poet's love for her mother

(c) Theme of old age

(d) Poet's travel plans

(vi) 'put that thought away'. Which thought was put away?

8. Read the extract and answer the questions for any one of the given two, (a) or (b): 1x4=

(a) Students on Ice, the programme I was working with on the Shokalskiy, aims to do exactly this by taking high school students to the ends of the world and providing them with inspiring educational opportunities which will help them foster a new understanding and respect for our planet. It's been in operation for six years now, headed by Canadian Geoff Green who got tired of carting celebrities and retired rich curiosity - seekers who could only' give' back in a limited way.

With Students on Ice he offers the future generation of policy- makers a life-changing experience at an age when they are ready to absorb, learn and most importantly act.

(i) Complete the following sentence.

The writer refers to educational opportunities as inspiring because .......

(ii) Which of the following would Not be a life changing experience?

(a) being given the lead role in a play

(b) going on an adventure trip

(c) playing a video game

(d) meeting a great leader you admire

(iii) Select the most suitable title for the given extract:

(a) Adventure with the mission

(b) Adventure- the spice of life

(c) The Wanderlust

(d) Students of the future

(iv) Why does the writer refer to 'act' as more important than absorb or learn?

OR

(b) When I heard this I didn't want to laugh anymore, I felt terribly sad. How could they believe that it was disgusting if one of us held that package in his hands, even though the vadai had been wrapped first in a banana leaf and then parcelled in paper?

I felt so provoked and angry that I wanted to touch those wretched vadais myself straight away. Why should we fetch and carry for these people, I wondered. Such an important elder of ours goes meekly to the shops to fetch snacks and hands them over reverently, bowing and shrinking, to this fellow who just sits there and stuffs them into his mouth. The thought of it infuriated me.

(i) The elder handing snacks reverently bowing and shrinking to the fellow indicates the 'fellow' was

1. condescending

2. unassuming

3. submissive

4. disdainful

aggressive

6. domineering

(a) 2,3 and 6

(b) 1,4 and 5

(c) 1,4 and 6

(d) 2, 3 and 5

- (ii) Based on the given context choose the option that illustrates when a person can be provoked, out of the examples given below.
  - 1. The employees organised a peaceful protest outside the firm.
  - 2. The manager ill-treated one of the employees and wrongfully terminated him.
  - 3. The employees wrote a letter of complaint against the manager.
  - 4. The director of the firm scheduled a meeting for reconciliation.

(a) option 1

(b) option 2

(c) option 3

(d) option 4

- (iii) Why did the narrator get sad?
- (iv) Do you think that the narrator can surpass the biasness of caste? How?
- 9. Read the following extracts and answer the questions for anyone of the given two, (a) or (b): 1x6=6
  - (a) All this shows that there was a great deal of national integration long before AIR and Doordarshan began broadcasting programmes on national integration. This gang of nationally integrated makeup men could turn any decent looking person into a hideous crimson hued monster with the help of truck- loads of pancake and a number of other locally made potions and lotions. Those were the days of mainly indoor shooting and only five percent of the film was shot outdoors.
    - (i) All this shows that there was a great deal of national integration. What does 'all this' refer to in the given lines?
    - (ii) Who are the nationally integrated makeup men?
      - (a) The make-up artists of Gemini Studio
      - (b) The make-up artists of a beauty parlour
      - (c) The make-up artists of All India Radio
      - (d) The make-up artists of Doordarshan
    - (iii) Find the word from the extract which means exactly the opposite of the word 'beautiful'.
      - (a) integrated
- (b) hideous
- (c) potions
- (d) monster

- (iv) Fill in the blanks
  - ...... is the name of a make-up brand that the studio used in large amounts.
- (v) What does the extract say about the television industry?

(vi) Which of the following statements replicates the meaning of pancake as used in the extract?

(a) He turned the pancake over with the strong flick of his wrist.

- (b) The countryside there is as flat as a pancake.
- (c) The whole landscape looked as flat as a pancake.
- (d) She applied the pancake on her face with a sponge.

OR

- (b) He had naturally been thinking of his rattraps when suddenly he was struck by the idea that the whole world about him- the whole world- with its land and seas - its cities and villages was nothing but a big rattrap. It had never existed for any purpose than to set baits for people.
  - (i) Who is 'he' referred to here?

(ii) What was he thinking?

(a) about rattraps

(b) about his survival

(c) about cities and villages

(d) None of these

(iii) According to him what is the purpose of the world?

(a) To kill people

(b) To set baits for people

(c) To spread kindness

(d) To hypnotize the world

(iv) Which word from the following means the same as allurement?

(b) rattrap

(c) idea

(d) bait

(v) What does the' rat trap' symbolise?

(vi) Fill in the blank:

The literary device used by the author to signify the rattrap is ....

5x2 = 10

10. Answer any five of the following six questions in 40 to 50 words each: (i) Who did M. Hamel blame for the neglect of learning on the part of boys like Franz? (The Last Lesson)

(ii) 'It is his karam', his destiny' .Explain (Lost Spring)

- (iii) How did the invention of synthetic Indigo affect the peasant-landlord relationship in Champaran? (Indigo)
- (iv) Explain the concept of 'interstices' in our lives as given by Umberto Eco. (The Interview)
- (v) Evaluate the two different perspectives to life that Jansie and Sophie represent. (Going Places)
- (vi) What is the source of 'an endless fountain' and what is its effect? (A Thing of Beauty)

11. Answer any two of the following three questions in 40 to 50 words each:

2x2 = 4

- (i) Do you think Derry's mother is protective of him? Justify your opinion with textual evidence. (On The Face Of It)
- (ii) Zitkala Sa says, "Eating by formula wasn't the hardest trial in that first day." What does she mean by Eating by formula'? (Memories of Childhood)
- (iii) Why was the Maharaja sunk in gloom even after having killed seventy tigers? (The Tiger King)

12. Answer any one of the following two questions in 120 to 150 words.

(a) When the peasants are so crushed and fear stricken law courts are useless. The real relief for them is to be free from fear. (Indigo). The people of Firozabad (Lost Spring) are too fear stricken to form a cooperative as there is a vicious circle of middlemen, politicians etc. who don't allow them to take any initiative. This means fear is the biggest deterrent to success.

As a motivational speaker give a speech advising students to overcome fear to lead a successful life. Use material from the texts to support your views.

You may begin like this:

Dear Students

Emotion will always interfere and interrupt your path to success...

(b) A Roadside Stand and Aunt Jennifer's Tiger's are both poetic expressions of inequality. Discuss with reference to the two poems.

13. Answer any one of the following two questions in 120 to 150 words.

5

(a) " ... that if the man were whole, I could turn him over to the Police... but since he is wounded" (The Enemy) The above statement clearly displays Dr Sadao's commitment to his profession and his compassion. Write a paragraph in appreciation of Dr Sadao's professional ethics and his ability to rise above prejudices.

You may begin like this:

Dr Sadao proved himself to be a man with great humanitarian values ...

(b) The narrator has used nostalgia and escapism very effectively to capture the interest of the reader in The Third Level. Do you agree with the statement? Mention specific instances from the text to support your view.



# DELHI PUBLIC SCHOOL, BHILAI

DATE: 12.12.2024

CLASS : XII

Name:

# PREBOARD EXAMINATION 2024-'25 SUBJECT - MATHEMATICS

Time: 3 Hrs. Max. Marks: 80

Roll No.:

General Instructions:

1. This question paper contains five sections A, B, C, D and E. Each section is compulsory.

2. Section - A carries 20 marks weightage, section - B carries 10 marks weightage, section - C carries 18 marks weightage, Section - D carries 20 marks weightage and section - E carries 3 case-based with total weightage of 12 marks.

3. Section - A comprises 20 MCQs of 1 mark each.

4. Section - B comprises 5 VSA type questions of 2 marks each.

5. Section - C comprises 6 SA type of questions of 3 marks each

Section - D comprises 4 LA type of questions of 5 marks each.

7. SECTION - E It has 3 case studies. Each case study comprises 3 case-based questions, where 2 VSA type questions are of 1 mark each and 1 SA type question is of 2 marks. Internal choice is provided in 2 marks question in two case-study.

8. Internal choices are provided in 2 questions in section - B, 3 questions in section - C, 2 questions in section - D. You have to attempt only one of the alternatives in all such questions.

The domain of function  $f(x) = cos^{-1}(x^2 - 4)$  is 01.

(B) 
$$[0, \pi]$$

(C) 
$$\left[-\sqrt{5}, -\sqrt{3}\right] \cap \left[-\sqrt{5}, \sqrt{3}\right]$$

(D) 
$$\left[-\sqrt{5}, -\sqrt{3}\right] \cup \left[\sqrt{3}, \sqrt{5}\right]$$

Let  $A = \begin{bmatrix} 1 & \sin\vartheta & 1 \\ -\sin\vartheta & 1 & \sin\vartheta \\ -1 & -\sin\vartheta & 1 \end{bmatrix}$  where  $0 \le \vartheta \le 2\pi$ , then

$$(A) |A| = 0$$

(B) 
$$|A| \in (2, \infty)$$

(C) 
$$|A| \in (2,4)$$

(B) 
$$|A| \in (2, \infty)$$
 (C)  $|A| \in (2, 4)$  (D)  $|A| \in [2, 4]$ 

If  $A = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$  then  $A^{2024}$  is equal to 03.

(A) 
$$\begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$$

$$(B)\begin{bmatrix}0&2024\\0&0\end{bmatrix}$$

(C) 
$$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$$

$$\text{(A)} \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix} \qquad \text{(B)} \begin{bmatrix} 0 & 2024 \\ 0 & 0 \end{bmatrix} \qquad \text{(C)} \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \qquad \text{(D)} \begin{bmatrix} 2024 & 0 \\ 0 & 2024 \end{bmatrix}$$

If  $A = \begin{bmatrix} \alpha & 0 \\ 1 & 1 \end{bmatrix}$  and  $B = \begin{bmatrix} 1 & 0 \\ 5 & 1 \end{bmatrix}$  then the value of  $\alpha$  for which  $A^2 = B$ , is 04.

(B) 
$$-1$$

(D) No real values

If A is a square matrix of order  $3 \times 3$  such that |A| = -3 then the value of  $|-3AA^T|$  is 05. (C) - 27

$$(B) - 243$$

$$(C) = 27$$

$$(D) - 81$$

If A is a square matrix of order n then which of the following is not correct: 06.

(A) 
$$adj(A^T) = (adj A)^T$$

(B) 
$$adj(adj A) = |A|^{n-2} A$$

(C) 
$$|adj (adj A)| = |A|^{(n-1)^2}$$

(D) 
$$adj(adj A) = |A|^{n-1} A$$

If  $f(x) = \begin{cases} x & , & 0 \le x \le 1 \\ 2x - 1 & , & x > 1 \end{cases}$  then which one of the following is appropriate for f(x)? 07.

(A) f is continuous at x = 1

(B) f is differentiable at x = 1

(C) f is continuous but not differentiable at x = 1

(D) None of these

Let f(x) = x + 1,  $x \in (-1, 1)$  then minimum and maximum value of the function is 08. (D) do not exist (B) [2, 2](C)[0,1](A)(-2,2)

**09.** 
$$\int \frac{2^{x+1}-5^{x-1}}{10^x} dx$$
 equal to

(A) 
$$\frac{1}{5} \frac{(2^{-x})}{\log 2} - 2\left(\frac{5^{-x}}{\log 5}\right) + C$$

(B) 
$$\frac{1}{6}\log(2^{-x}) - 2\log 5^x(5^{-x}) + C$$

(C) 
$$\frac{1}{5} log(2^{-x}) + 3log5 \times (5^{-x}) + C$$
 (D) None of these

10.	The value of $\int_0^1 tar$	$n^{-1}\left(\frac{2x}{1+x-x^2}\right) dx$ is				
	(A) 1	(B) 0	(C) -1	(D) $\pi/4$		
11.	The area of the region (A) 2 sq. unit	on bounded by the cur (B) $\frac{9}{4}$ sq. unit	erve $y^2 = 4x$ , $y - axis$ (C) $\frac{9}{3}$ sq. unit	and line $y = 3$ , is $(D) \frac{9}{2} \text{ sq. unit}$		
12.	$tan^{-1}x + tan^{-1}y =$ (A) $\frac{dy}{dx} = \frac{1+y^2}{1+x^2}$	= C is the general solu	ation of the equation $(B) \frac{dy}{dx} = \frac{1}{2}$	$\frac{1+x^2}{+y^2}$		
	(C) $(1+x^2)dy + ($	$1 + y^2)dx = 0$	(D) $(1 + y)$	$(x^2)dy + (1+x^2)dx = 0$		
13.	The sum of order ar	nd degree of differenti (B) 3	ial equation $\frac{d}{dx} \left[ \left( \frac{dy}{dx} \right)^3 \right]$	] = 0 is (d)5		
14.	Let $\vec{a} = \hat{\imath} - 2\hat{\jmath} + 3$ (A) 7	$\hat{k}$ and $\vec{b}$ is a vector (B) 14	such that $\vec{a} \cdot \vec{b} =  \vec{b} ^2$ (C) $\sqrt{7}$	and $ \vec{a} - \vec{b}  = \sqrt{7}$ then $ \vec{b} $ is equal (D) $\sqrt{21}$	al to	
15.	If $\vec{a}$ and $\vec{b}$ are two $\vec{a}$ and $\vec{b}$ is (A) $\pi$		$\vec{a} + \vec{b}$ is also a unit (C) $\pi/3$	vector, then the angle between (D) $2\pi/3$		
16.	(A) Given by inters (B) Given by inters	ptimal value of the obsection of inequations section of inequating ver points of the feasible	with X axis only.	nined at the points		
17.	The maximum value $3x + 2y \ge 160$ , $x + 2y \ge 80$ , (A) 320	ue of $z = 4x + 3y$ so $5x + 2y \ge 200$ $x, y \ge 0$ , is (B) 300	(C) 230	(D) None of these		
18.	A and B are events then $P(B' \cap A)$ eq (A) 2/3	s such that $P(A) = 0$ (a) to (B) $1/2$	A, P(B) = 0.3  and  B (C) 3/10	$P(A \cup B) = 0.5$ , (D) 1/5		
For questions 19 and 20, two statements are given – one labeled Assertion (A) and the other labeled Reason (R), select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below:  (A) Both A and R are true and R is the correct explanation of the assertion  (B) Both A and R are true and R is not the correct explanation of the assertion  (C) A is true, but R is false  (D) A is false, but R is true						
19.	Statement - 2 (F	(a): $for(x) = e^{- x }$ is	fferentiable $\forall x \in R$ . scontinuous everywhere			
20.	Statement - 1 (A Statement - 2 (I	A): The function $f: R$ R): The function $f: R$	$\rightarrow$ defined by $f(x) = R$ defined by $f(x)$	[x] is neither one-one nor onto. = $ x $ is onto.		
			Section - B			

Find the value of  $tan^{-1}\left(tan\frac{5\pi}{6}\right) + cos^{-1}\left(cos\frac{13\pi}{6}\right)$ 

If  $x\sqrt{1+y} + y\sqrt{1+x} = 0$ ,  $x \neq y$ , then show that  $\frac{dy}{dx} = \frac{-1}{(1+x)^2}$ 

If  $\sin^2 y + \cos(xy) = \pi$ , then find  $\frac{dy}{dx}$ 

21.

22.

- 23. For the curve  $y = 5x 2x^3$  if x increases at rate of 2 units/sec then how fast is the slope changing when x = 3.
- If  $|\vec{a}| = 10$   $|\vec{b}| = 2$  and  $\vec{a} \cdot \vec{b} = 12$  then find the value of  $|\vec{a} \times \vec{b}|$ OR

  If the lines 6x 2 = 3y + 1 = 2z 2 and  $\frac{x-2}{\lambda} = \frac{2y-5}{-3} = \frac{z+2}{0}$  are perpendicular to each other then find the value of  $\lambda$ .
- 25. If  $\vec{a}$  and  $\vec{b}$  two vectors with magnitudes  $\sqrt{3}$  and 4 respectively and  $\vec{a} \cdot \vec{b} = 2\sqrt{3}$  then find the angle between  $\vec{a}$  and  $\vec{b}$ .

- 26. Find the interval in which  $f(x) = \log(1+x) \frac{x}{1+x}$  is increasing or decreasing.
- 27. Sand is pouring from a pipe at the rate of 12 cm<sup>3</sup>/sec. The falling sand forms a cone on the ground in such a way that the height of the cone is always one-sixth of the radius of the base. How fast is the height of sand-cone increasing when height is 4 cm.
- 28. Evaluate :  $\int \frac{xe^x}{(x+1)^2} dx$   $\int_0^{\frac{\pi}{4}} \log (1 + \tan x) dx$ OR
- 29. Find the shortest distance between the lines  $\frac{x-8}{3} = \frac{y+9}{-16} = \frac{10-z}{-7}$  and  $\frac{x-15}{3} = \frac{y-29}{8} = \frac{5-z}{5}$ OR

  If  $\vec{a} = \hat{\imath} + 4\hat{\jmath} + 2\hat{k}$ ,  $\vec{b} = 3\hat{\imath} 2\hat{\jmath} + 7\hat{k}$  and  $\vec{c} = 2\hat{\imath} \hat{\jmath} + 4\hat{k}$ . Find a vector  $\vec{d}$  which is perpendicular to both  $\vec{a}$  and  $\vec{b}$  and  $\vec{c}$ .  $\vec{d} = 15$ .
- 30. Consider the following L.P.P. Minimise z = x + 2ySubject to constrains  $2x + y \ge 3$ ,  $x + 2y \ge 6$ ,  $x, y \ge 0$ Show graphically that minimum of z occurs at more than one point.
- 31. Two numbers are selected at random (without replacement) from first six positive integers. Let X denotes the larger of the two numbers obtained. Find the probability distribution of X, also find mean of X.

#### OR

There are four ball in a bag. Two balls are drawn at random and both found to be white. Find the probability that all the balls in the bag are white.

32. Use the product  $\begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix} \begin{bmatrix} -2 & 0 & 1 \\ 9 & 2 & -3 \\ 6 & 1 & -2 \end{bmatrix}$ 

to solve the system of equations: x + 3z = 9, -x + 2y - 2z = 4, 2x - 3y + 4z = -3

- 33. If  $y = (log x)^x + x^{log x}$  then find dy/dx.

  OR

  If  $x = sin(\frac{1}{a}log y)$ , show that  $(1 x^2)y_2 xy_1 = a^2 y$
- Find the area of the smaller part of the circle  $x^2 + y^2 = a^2$  cut off by the line  $x = a/\sqrt{2}$ .

  OR

  Find the area of the region bounded by the curve  $x = 4y y^2$  and the y axis.

35. Find the co-ordinate of foot of perpendicular from the point (2, 3, -8) to the line  $\frac{4-x}{2} = \frac{y}{6} = \frac{1-z}{3}$  Also find the equation of perpendicular and distance of given point from the line.

# Section – E (Case Study Questions)

Ritesh and Kamal are playing a game with a die. They find that all possible outcomes in the game is given by the set  $\{1, 2, 3, 4, 5, 6\}$ . Let A and B are the sets of players and outcomes i.e.  $A = \{R, K\}$ ,  $B = \{1, 2, 3, 4, 5, 6\}$ 

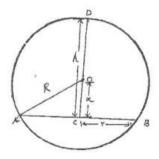
On the basis of the above information, answer the following questions:

(a) Show that the relation R on set B, defined by  $R = \{(x, y): y \text{ is divisible by } x\}$ , is reflexive transitive but not symmetric.

OR

Let R be a relation on B defined by  $R = \{(1,2),(2,1),(2,2),(1,3),(3,4),(3,1),(1,1),(4,3)\}$  Check whether R is reflexive, symmetric or transitive.

- (b) Ritesh is willing to know the number of functions from A to B. How many functions can be made from A to B.
- (c) Kamal wants to know the number of possible relations from A to B. Find the number of relations.
- 37. Let a cone be inscribed in a sphere of radius R. The height and radius of cone are h and r respectively as shown in the figure:



On the basis of the above information, answer the following questions:

- (a) Write the relation among r, R and x.
- (b) Write the volume V of the cone in terms of R and x.
- (c) Show that the volume V of the cone is maximum when x = R/3.

#### OR

If volume V of the cone is maximum at x = R/3, then find the maximum volume of the cone and also find the ratio of maximum volume of the cone and volume of the sphere.

38. A doctor is to visit a patient. From the past experience, it is known that the probabilities that he will come by train, bus, scooter or by other means of transport are respectively 3/10, 1/5, 1/10 and 2/5. The probabilities that he will be late are 1/4, 1/3 and 1/2, if he comes by train, bus or by scooter but if he come by other means of transport, he is in time.

On the basis of above information answer the following questions:

- (a) Find the probability that the doctor will be late.
- (b) Find the probability that he had come by scooter given that he was late.



# **DELHI PUBLIC SCHOOL, BHILAI**

DATE: 12.12.2024

CLASS: XII

PREBOARD EXAMINATION 2024-'25 SUBJECT - APPLIED MATHEMATICS

Ti	me	: 3	Н	rs.
Max.	Ma	rks	:	80

Namra:

Roll No.:

#### GENERAL INSTRUCTIONS

- 1. This Question paper contains five sections A, B, C, D and E. Each section is compulsory. However, there is some internal choice in some questions.
- 2. Section A has 18 MCQ's and 02 Assertion Reason based questions of 1 mark each.
- 3. Section B has 5 Very Short Answer (VSA) questions of 2 marks each.
- 4. Section C has 6 Short Answer (SA) questions of 3 marks each.
- 5. Section D has 4 Long Answer (LA) questions of 5 marks each.
- 6. Section E has 3 source based/case based/passage based/integrated units of assessment (04 marks each) with sub parts.
- 7. Internal Choice is provided in 2 questions in Section -B, 2 questions in Section-C, 2 Questions in Section-D. You have to attempt only one alternatives in all such questions.

#### SECTION - A

# (All questions are compulsory no internal choice is provided in this section)

- 1. In 1 km race, player P beats player Q by 18 m or 9 sec. What is P's time to complete the race? (D) 481 sec (A) 512 sec (B) 502 sec (C) 491 sec
- If x > y and z < 0, then 2. (A) xz > yz (B)  $xz \ge yz$  (C)  $\frac{x}{z} > \frac{y}{z}$
- If AB = A and BA = B, then  $(B^2 + B)$  equals 3. (D) 2B (A) 2A (B) O (C) 21
- The value of  $A = \begin{bmatrix} 42 & 2 & 5 \\ 79 & 7 & 9 \\ 29 & 5 & 3 \end{bmatrix}$ (D) 3
- If  $y = e^{-2x}$ , then  $\frac{d^3y}{dx^3}$  is equal to (A)  $2e^{-2x}$  (B)  $e^{-4x}$
- The function  $f(x) = x^2 x + 1$ 6. (A) increasing in (0, 1)
  - (B) decreasing in (0,1)
  - (C) increasing in  $\left(0, \frac{1}{2}\right)$  and decreasing in  $\left(\frac{1}{2}, 1\right)$
  - (D) increasing in  $(\frac{1}{2}, 1)$  and decreasing in  $(0, \frac{1}{2})$
- The order and the degree of the differential equation  $y \frac{d^2y}{dx^2} x \left(\frac{dy}{dx}\right)^2 = 0$  are respectively 7. (B) 1, 2 (A) 1, 1
- 8. A fair coin is tossed twice and outcomes are noted. If the random variable X represents the number of heads that appeared in the experiment, then the mathematical expectation of X is (C) 1/4 (A) 1 (B) 1/2
- 9. What time will it be after 1275 h, if the present time is 9: 00 pm?
  - (A) 1.1 pm
- (B) 12 am
- (C) 9 pm
- (D) 9 am
- If for a Poisson Variate X, P(X = k) = P(X = k + 1), then the variance of X is 10. (C) k + 1(A.) k - 1(B) k
- 11. If the calculated value of  $|t| < t_v(\alpha)$  (critical value of t), then the null hypothesis is
  - (A) rejected

- (B) accepted
- (C) neither accepted nor rejected
- (D) cannot be determined

		:: 2 ::		3 /
12.	For testing the significance of diffe degree of freedom(v) is taken as	rence between the r	neans of two independen	t samples, the
	(A) $n_1 - n_2 + 2$	(B) $n_1 + n_2 + 2$		
	(C) $n_1 - n_2 - 2$	(D) $n_1 + n_2 - 2$		
13.	For the given values 23, 32, 40, 47 (A) 38, 40, 42 (B) 4	7, 58, 33, 42, the 5 ye 40, 42, 44 (C)	arly moving averages are 40, 42, 46 (D) 42	., 44, 46
14.	Using the flat rate method, the EN	Al to repay a loan of	Rs 20000 in $2\frac{1}{2}$ year at an	interest rate of 8%
	per annum is (A) Rs 700 (B) Rs 800	(C) Rs 900	(D) Rs 100	
15.	A mobile phone costs Rs 12000 ar book value of the mobile phone a	it the end of 2 year is	5	Rs 3000. Then the
	(A) Rs 3000 (B) Rs 6000			
16.	What sum of money should be de 8 year, if money is worth 6% per (A) Rs 3432.53 (B) Rs 2783	annum compounded	semi-annually? [given (1	.03) = 1.6047]
17.	The graph of the inequation $2x - (A)$ half-plane that contains the or (B) entire $XOY - plane$ (C) $half - plane$ that neither co (D) whole $XOY - plane$ excluding	origin ontains the origin nor	the points on the line $2x$ line $2x + 3y = 6$	+ 3y = 6
18.	In an LPP if the objective function the feasible region, then the number (A) 0 (B) 2	nber of points at whi	ne maximum value on two ich maximum value of z o (D) infinite	corner points of ccurs is
	Q. NO. 19 and 20 are ASSERTION (A) A and R both are correct and (B) A and R both are correct and (C) A is correct and R is false.  (D) A is false and R is correct	R is the correct expl	lanation of A.	ptions:
19.		us on [a, b] and deriving $> 0$ for all $x \in (a, b)$	(a, b) then $f(x)$	is strictly moreus
20	In the Binomial distribution, n =	= 200 and $p = 0.04$ . Ta	aking Poisson distribution	as an approximation

- In the Binomial distribution, n 20. to the binomial distribution Assertion (A): Mean of Poisson distribution = 8

Reason (R):  $P(X = 4) = \frac{512}{3e^8}$ 

#### SECTION - B

(All questions are compulsory.

In case of internal choice attempt any one question only, also write steps in support of your answers)

If A =  $\begin{bmatrix} 1 & 0 \\ -1 & 7 \end{bmatrix}$ , find the value of k such that  $A^2 - 8A + kI = 0$ . 21. 

- Using Cramer's rule, solve the following system of equations 2x + 3y = 5; 11x 5y = 622.
- Find the solution to the following linear programming problem (if it exists) graphically Maximize 23. Z = x + y subject to the constraints  $x - y \le -1$ ;  $-x + y \le 0$ ;  $x, y \ge 0$
- At 6% per annum, compounded quarterly, find the present value of perpetuity of Rs 600 payable 24. at the end of each quarter.

Contd...3

25. Assume an investment's starting value is Rs 20000 and it grows to Rs 50000 in 3 year. Calculate CAGR (Compounded Annual Growth rate) (use  $(2.5)^{1/3}=1.355$ )

OR

A man bought an item for Rs 12000. At the end of the year, he decided to sell it for Rs 15000. If the inflation rate was 6%, find the nominal and real rate of return.

#### SECTION - C

(All questions are compulsory.

In case of internal choice attempt any one question only, also write steps in support of your answers)

- 26. A container has 50 L of juice in it. 5L of juice is taken out and is replaced by 5L of water. This process is repeated 4 more times. Determine the quantity of juice in the container after final replacement. [ $use(0.9)^5 = 0.59049$ ].
- 27. Evaluate  $\int_0^2 x^2 dx$  and hence show the region on the graph whose area it represents. OR Evaluate  $\int_0^1 \frac{e^{-x}}{1+e^x} dx$ .
- 28. Find the differential equation of all circles in the first quadrant which touches both the coordinate axes.
- 29. Given that the scores of a set of candidates on an IQ test are normally distributed. If the IQ test has a mean of 100 and a standard deviation of 10, determine the probability that a candidate who takes the test will score between 90 and 110. [given P(Z<1) = 0.8413 and P(Z<-1) = 0.1587]
- The mean weekly sales of a 4-wheeler was 50 units per agency in 20 agencies. After an advertising campaign, the mean weekly sales increased to 55 units per agency with standard deviation of 10 units. Test whether the advertising campaign was successful. [given  $\sqrt{5} = 2.24$ ,  $t_{19}(0.05) = 1.729$ ]
- 31. A recent accounting graduate opened a new business and installed a computer system that costs Rs 45200. The computer system will be depreciated linearly over 3 years and will have a scrap value of Rs 0.
  - (i) What is the rate of depreciation?
  - Give a linear equation that describes the computer system's book value at the end of  $t^{th}$  year, where  $0 \le t \le 3$
  - (iii) What will be the computer system's book value at the of the first year and a half?
    - Find the effective rate which is equivalent to normal rate 10% per annum compounded
  - (i) semi-annually
  - (ii) Quarterly  $[Given (1.05)^2 = 1.1025, (1.025)^4 = 1.1038]$

### SECTION - D

(All questions are compulsory.

In case of internal choice attempt any one question only, also write steps in support of your answers)

- A cistern has three pipes A, B and C. Pipes A and B are inlet pipes whereas pipe C is an outlet pipe. Pipes A and B can fill the cistern separately in 3 h and 4 h respectively, while pipe C can empty the completely filled cistern in 1 h. If the pipes A, B and C are opened in order at 5, 6 and 7 am respectively, at what time will the cistern be empty?
- 33. Find all the points of local maxima and local minima of the function

$$f(x) = -\frac{3}{4}x^4 - 8x^3 - \frac{45}{2}x^2 + 105$$

OR

Find the intervals in which the following function f is strictly increasing or strictly decreasing  $f(x) = 20 - 9x + 6x^2 - x^3$ 

34. Let X denotes the number of hours a class 12 student studies during a randomly selected school day. The probability that X can take the value x<sub>i</sub>, for an unknown constant k

$$P(X = k) = \begin{cases} 0.1, & \text{if} & x_i = 0\\ kx_i, & \text{if} & x_i = 1 \text{ or } 2\\ k(5 - x_i) & \text{if} & x_i = 3 \text{ or } 4 \end{cases}$$

- (A) Find the value of k.
- (B) Determine the probability that the student studied for at least 2 h.
- (C) Determine the probability that the student studied for at most 2 h.

OF

A river near a small town floods and overflows twice in every 10 year on an average. Assuming that Poison distribution is appropriate, what is the mean expectation? Also, calculate the probability of 3 or less overflows and floods in a 10 years interval. [Given  $e^{-2} = 0.13534$ ]

35. Amu buys a car for which she makes a down payment of Rs 250000 and the balance is to be paid in 2 years by monthly instalments of Rs 25448 each. If the financer charges interest at the rate of 20% per annum, find the actual price of the car. [Given  $\left(\frac{61}{60}\right)^{-24} = 0.67253$ ]

### SECTION E-CASE BASED

(All questions are compulsory.

In case of internal choice attempt any one question only, also write steps in support of your answers)

36. On her birthday Shenu decides to donate some money to children of an orphanage home. If there are 8 children less, everyone gets Rs 10 more. However, if there are 16 children more, everyone gets Rs 10 less. Let the number of children in the orphanage home be x and the amount to be child be Rs y.

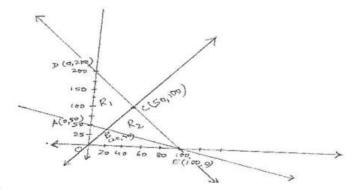
Based on above information answer the following questios.

- (a) Write the system of linear equations in x and y formed of the given situation.
- (b) Write the system of linear equations, obtained in (a) above in matrix form AX = B.
- (c) Find the inverse of the matrix A.

OR

Determine the values of x and y.

37/. In number theory, it is often important to find factors of an integer N, the number N has two trivial factors, namely 1 and N. Any other factor, if exists, is called non-trivial factor of N. Chenu has plotted a graph of some constraints (linear inequations) with points A(0,50), B(20,40), C(50,100), D(0,200) and E(100,0). This graph is constructed using three non-trivial constraints and two trivial constraints. One of the non-trivial constraints is  $x+2y \ge 100$ 



Based on the above information answer the following questions

What are the two trivial constraints?

(b) What are the other two non-trivial constrains if  $R_1$  is the feasible region.

ons (a)

OR

What are the other two non-trivial constrains if R<sub>2</sub> is the feasible region

(c) If R<sub>1</sub> is the feasible region, then find the maximum value of the objective function Z = 5x + 7y
38. When observed over a long period of time a time series data can predict trends that can forecast increase or decrease or stagnation of a variable under consideration, such analytical studies can benefit a business for forecasting or prediction of future estimated sales or production. The table below shows the sale of an item in a district during 1996 – 2001

					The second secon	
Year	1996	1997	1998	1999	2000	2001
Sales (in lakh Rs)	6.5	5.3	4.3	6.1	5.6	7.8
Daice (iii iditii ite)		A STATE OF THE PARTY OF THE PAR				

Based on above information answer the following questions:

- (a) Determine the equation of straight line trend.
- (b) Tabulate the trend values of the years and also compute expected sales trend for the year 2002.

OR

Tabulate the trend values of the years and plot the graph.

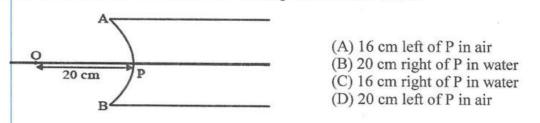


# **DELHI PUBLIC SCHOOL, BHILAI**

DATE: 04.12.2024 PREBOARD EXAMINATION 2024-'25
CLASS: XII SUBJECT – PHYSICS

Time: 3 Hrs. Max. Marks: 70

Name :								F	Roll No. : _	
(1) (2) (3) (4) (5)	There This All the Section each, three Section	question pap ne sections ar on A contain Section B comarks each, on E contain e is no overal on B, one que ction E. You	tions in all. All er has five sector compulsory. It is sixteen questontains five questontains five question D constant choice. However, is not allowed	tions: Se tions, two testions of tains two aswer que- ever, an on C, one opt only o	elve MC of two may o case strestions of internal of e questions	B, C, D and four arks each, ady-based f five marchoice has n in each	r Assertion Section C questions ks each. been prov CBQ in Se	n Reasoning Contains ser of four mark rided in one of	ven questions as each and question in	s of
				SECT	ION – A	***************************************			(16x1=16 n	
Q.1	pla to a	tes, X has air	and Y has die 2V. The ratio (B) 1	X and Y lectric of electro	have the f constant	same area t 2, betwe	en its plate	es. They are	paration betw	een
Q.2	exp		le placed in an rque equal to 4 (B) 8 i	Nm. Th	ne charge					(1)
Q.3	ma	gnetic field s	of radius 1 mr trength at the c T (B) 12	centre of	the soler	noid is-		ont flows in the $(D)$ 6.2		he (1)
Q.4	(A)	sound wave	effect can be of s only vaves only	(B) light	in – ht waves	only				(1)
Q.5	(A) (B) (C)	They are tranched The energy They travel	nich is not of an asverse in natu density in elec- with a speed equate from charge	re tric field qual to $\sqrt{f}$	is equal $\frac{1}{\mu_0 \ \epsilon_0}$	to energy	density in			(1)
Q.6	(D)They originate from charges moving with uniform speed							(1)		
Q.7		nich of the fo	llowing waves (B) Infrared			Llystron tu C) Gamm		(D) Micr	rowaves	(1)
Q.8	sca	pact paramete ttering angle 0°	er for an alpha (θ) is: (B) 90°	particle	approach		et nucleus (D) 4		when the	(1)
Q.9	For	an astronom	nical telescope elescope's tube	having of length a	bjective and magn	lens of fo	cal length espectivel	10 m and ey		
Q.10	a tr	ansparent ma	ten below, API aterial ( $n = 4/3$ ) from P. The dis-	). A poir	rved surf	ace of rad O is place	ius of curv d in air on	ature 10 cm	separating ai	



(1)

- Silicon can be doped using one of the following elements as dopant: Q.11
  - (i) Arsenic
  - (ii) Indium
  - (iii) Phosphorus
  - (iv) Boron To get n-type semiconductor, the dopants that can be used are:
  - (A) (i) and (iii only
- (B) (ii) and (iii) only
- (C) (i), (ii), (iii) and (iv)
- (D) (iii) and (iv) only

(1)

Q.12 The current through a  $\frac{4}{3}$   $\Omega$  external resistance connected to a parallel combination of two cells of 2 V and 1 V emf and internal resistances of 1  $\Omega$  and 2  $\Omega$  respectively is equal to –

(A) 1 A

(B) 2/3 A

(C) 3/4 A

(D) 5/6 A

(1)

For Questions 13 to 16, two statements are given - one labelled Assertion (A) and other labelled Reason (R). Select the correct answer to these questions from the options as given below:

- (A) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (B) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (C) If Assertion is true but Reason is false.
- (D) If both Assertion and Reason are false.
- Assertion (A): Magnetic field interacts with a moving charge only. Q.13Reason(R): Moving charges never produce a magnetic field.

(1)

Assertion (A): Angular momentum of single electron in any orbit of Hydrogen type atoms is Q.14 independent of the atomic number of the element.

Reason (R): In ground state, angular momentum is maximum.

Q.15 Assertion (A): Energy is released when heavy nuclei undergoes fission or light nuclei undergoes fusion.

Reason (R): For heavy nuclei, binding energy per nucleon increases with increasing Z while for light nuclei it decreases with increasing Z.

Q.16 Assertion (A): Number of photons increases with increase in frequency of light. Reason (R): Maximum kinetic energy of emitted electrons increases with the Wavelength of incident radiation.

# SECTION - B

(5x2=10 marks)

Define the terms: Q.17

(a) threshold frequency and (b) stopping potential in photo electric effect.

In Young's double-slit experiment using monochromatic light of wavelength  $\lambda$ , the intensities of two sources is I. What is the intensity of light at a point where path difference between wave Q.18 front is  $\frac{\lambda}{4}$ ?

Two light waves of wavelengths 800 and 600 nm are used in Young's double slit experiment to obtain interference fringes on a screen placed 7 m away from plane of slits. If the two slits are separated by 0.35 mm, then calculate the shortest distance from the central bright maximum to the point where the bright fringes of the two wave length coincide.

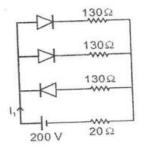
- Derive expression for magnetic field due to a straight current carrying conductor. Q.19
- Show that density of nucleus is independent of its mass number A. Q.20
- State Bohr's postulates and show that speed of electron in innermost orbit of hydrogen atom is Q.21  $\frac{1}{137}$  times speed of light.

# SECTION - C

(7x3=21 marks)

Q.22 (a) 'A doped semiconductor is electrically neutral'. Explain this.

(b) In the given figure, each diode has a forward bias resistance of 30  $\Omega$  and infinite resistance in reverse bias. Find the current  $I_1$ .



(3)

Q.23 The electric potential (in volt) in a region varies with x according to the relation  $V(x) = 5 + 4x^2$ , where x is in m.

(i) Is the electric field in the given region uniform?

- (ii) Find the magnitude and direction of the force experienced by a charge of 1C placed at x = -1 m. (3)
- Q.24 (i) Draw a ray diagram for the formation of image by a Cassegrain telescope.

(ii) Why these types of telescopes are preferred over refracting type telescopes. (Write 2 points) (3)

Q.25 Explain the working of a full wave rectifier with the circuit diagram.

Q.26 (i) Define self inductance. Write its SI unit.

(ii) Write the expression for self inductance of long solenoid of length 'l' and having 'N' turns.

(iii) If the rate of change of current of 2 A/s induces an emf of 10 mV in a solenoid, what is the self inductance of the solenoid? (3)

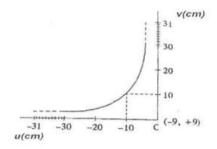
Q.27 (a) Write the lens makers formula.

(b) A convex lens made up of a glass of refractive index 1.5 is dipped in -

(i) a medium of refractive index 1.65,

(ii) a medium of refractive index 1.33. Will it behave as converging lens or a diverging lens in the two cases?

(c) The graph shows the relationship between object distance (u) and image distance (v) for an equiconvex lens. Find the focal length of the lens using the graph.5 cm



Q.28 State Gauss's law in electrostatics. Using this theorem, derive an expression for the electric field due to an infinitely long straight wire of linear charge density λ.
 (3)

OR

(a) Define electric flux and write its SI unit.

(b) Use Gauss' s law to obtain the expression for the electric field due to a uniformly charged infinite plane sheet of charge.

SECTION D

Q.29 Case Study Based Question:

A galvanometer is used in an electric circuit to detect current and in some experiments to locate the null point. The galvanometer cannot be used as such to measure the value of current. A galvanometer is a very sensitive device. It gives full scale deflection even for a very small current of the order of few micro – amperes. On the passage of a large current the galvanometer may get damaged either due to the breaking of the pointer or the coil may burn due the production of the excessive heat. A galvanometer can be converted an ammeter by the use of a shunt resistance.

 Two galvanometers A and B require 6 mA and 2 mA respectively to produce the same deflection of division. Then,

(A) A is more sensitive than B

(B) B is more sensitive than A

(C) A and B are equally sensitive

(D) cannot predict

(4)

(2x4=8 marks)

(3)

(3)

(ii) A 72  $\Omega$  galvanometer is shunted by a resistance of 8  $\Omega$ . The percentage of the total current which passes through the galvanometer is –

(A) 0.1%

(B) 10%

(C) 25%

(D) 0.25%

- (iii) Which one will have the greatest resistance, a micro-ammeter, a milli-ammeter, or an ammeter?
  - (A) Microammeter

(B) Milliammeter

(C) Ammeter

- (D) All will have the same resistance
- (iv) (a) Sensitivity of a galvanometer depends on:

(A)angle of deflection

- (B) torsion constant
- (C) earths magnetic field
- (D) Moment of inertia of coil

#### OR

(b) An ammeter reads up to 1 ampere. Its internal resistance is 0.81 ohm. To increase the range to 10A, the value of the required shunt is –

(A) 0.9 ohm

(B) 0.09 ohm

(C) 0.03 ohm

(D) 0.3 ohm

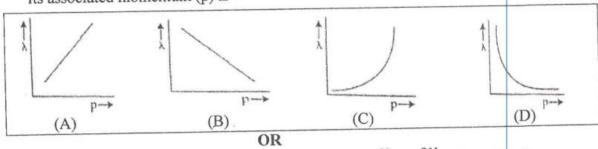
# Q30. Case Study Based Question:

Dual nature : French physicist de Broglie in 1924 put forward the bold hypothesis that moving particles of matter should display wave-like properties under suitable conditions. He reasoned that nature was symmetrical and that the two basic physical entities - matter and energy, must have symmetrical character. If radiation shows dual aspects, so should matter. de Broglie proposed that the wave length  $\lambda$  associated with a particle of momentum p is given as

 $\lambda = h/p = h/mv$ . From this equation  $\lambda$  is smaller for a heavier particle (large m) or more energetic particle (large v). de Broglie wavelength of an electron accelerated by a potential difference

'V' can be calculated by  $\lambda = \frac{12.27A^0}{\sqrt{\nu}}$ 

- For which of the following particles, it will be most difficult to experimentally verify de (i) broglie relationship? (A) an electron (B) proton (C) alpha particle (D) dust particle
- Which of the following is not an electromagnetic wave? (ii) (C) Radio wave (D) Ultraviolet (B) X Rays (A) Matter wave
- The de Broglie wavelength of an electron having kinetic energy E is  $\lambda$ . If the kinetic (iii) energy of electron becomes  $\frac{E}{4}$ , then its de-Broglie wavelength will be: (A)  $\frac{\lambda}{2}$  (B)  $\lambda \sqrt{2}$  (C)  $\frac{\lambda}{\sqrt{2}}$  (D)  $2\lambda$
- (iv) (a) The graph which shows the variation of the de Broglie wavelength (□) of a particle and its associated momentum (p) is -



(b) A particle at rest breaks down in two parts of masses  $\frac{M}{3}$  and  $\frac{2M}{3}$ . The ratio of de - Broglie wavelength of two parts is equal to -(D) 1:1 (B) 1:2 (A) 2:1

SECTION E

(3x5=15)

Q.31 (i) State Kirchhoff's rules in analysis of electrical circuits.

(ii) Derive the equation of the balanced state in a Wheatstone bridge using Kirchhoff's laws.

OR

(i) Define resistivity.

(ii) On the basis of electron drift, derive an expression for resistivity of a conductor in terms of number density of free electrons and relaxation time.

(iii) On what factors does the resistivity of a conductor depends?

(iv) Why alloys like Manganin are used for making standard resistors?

Q.32 (i) Explain the working of a transformer with diagrams.

(ii) How is the transformer used in large scale transmission and distribution of electricity over long distances?

(i) A voltage  $v = V_0 \sin \omega t$  applied to a series LCR circuit drives a current  $i = I_0 \sin (\omega t + \phi)$  in the circuit. Deduce the expression for the average power dissipated in the circuit.

(ii) What is power factor?

(iii) What is wattless current?

Q.33 (i) Derive mirror equation for a concave mirror.

(ii) Using mirror equation show that a convex mirror always makes a virtual and diminished image independent of location of object.

OR

- (i) Two thin lenses are placed co-axially in contact. Obtain the expression for the focal length of this combination in terms of focal lengths of the two lenses.
- (ii) The refractive index of prism is  $n = \sqrt{3}$  and the ratio of the angle of minimum deviation to the angle of prism is one. Calculate the value of angle of prism.

### ශශය නනන



# DELHI PUBLIC SCHOOL, BHILAI

DATE: 16.12.2024

11.

its completion is: (A)  $1.26 \times 10^{13} s$ 

(C)  $0.63 \times 10^{13} s$ 

# PREBOARD EXAMINATION 2024-'25

T	ime	:	3	Н	rs.	
Vlax.	Ma	r	ks	:	70	

CLASS : XII Name :		SUBJECT – CHEMISTRY	Max. Marks : 70
Gener (A) (B) (C) (D) (e) (f) (g) (h)	There SEC' SEC' SEC' SEC' All qu	tructions: Read the following instructions carefully.  are 33 questions in this question paper with internal choice.  FION A consists of 16 multiple-choice questions carrying 1 mark each.  FION B consists of 5 short answer questions carrying 2 marks each.  FION C consists of 7 short answer questions carrying 3 marks each.  FION D consists of 2 case-based questions carrying 4 marks each.  FION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.  HION E consists of 3 long answer questions carrying 5 marks each.	
		SECTION – A	•••••••••••••••••••••••••••••••••••••••
The formark.	llowin There	g questions are multiple-choice questions with one correct answer. Eacl is no internal choice in this section.	h question carries 1
1.	Fac-	Mer isomerism is associated with which one of the following complexes	s?
		$M(AA)_2$ (B) $[M A_3 B_3]$ (C) $[M ABCD]$	
2.	(A) (B) A (C) (C)	ines are arranged in decreasing order of their basic strength in gaseous will be: $ (CH_3)_3N > (CH_3)_2NH > CH_3NH_2 > NH_3 $ $ (H_3)_3N + (CH_3)_2NH > (CH_3)_3N $ $ (H_3)_3N + (CH_3)_3N > (CH_3)_2NH > NH_3 $ $ (CH_3)_2NH > (CH_3)_3N > (CH_3)_4NH_2 > NH_3 $ $ (CH_3)_2NH > (CH_3)_3N > CH_3NH_2 > NH_3 $	* 1500 mm
3.	Arao	ngst the following, the most stable complex is:	
		$Fe(H_2O)_6]^{3+}$ (B) $[Fe(NH_3)_6]^{3+}$ (C) $[Fe(C_2O_4)_6]^{3-}$ (I	O) [FeCl <sub>6</sub> ] <sup>3-</sup>
4.	Two the ca	faradays of electricity are passed through a solution of $CuSO_4$ . The mast athode (at mass of Cu=63.5 amu) is:  g (B) 127 g (C) 0 g (D) 63.5 g	
5.	The c	hemical teat to distinguish between ethamine and aniline is laloform test (B) Tollen's test (C) Azo dye test (D) Hinsi	berg test
6.	Amo	ng $[Ni(CO)_4]$ , $[Ni(CN)_4]^{2-}$ , $[NiCl_4]^{2-}$ species the hybridisation of	order is
		$p^3$ , $dsp^2$ , $sp^3$ (B) $dsp^2$ , $sp^3$ , $dsp^2$ (D) $dsp^2$ , $sp^3$ , $sp^3$	
7.	(A) P (B) P (C) P	UPAC name of the complex $[CO(NH_3)_5(NO_2)]Cl_2$ is entaammine nitrito-O-cobalt (III) chloride entaammine nitrito-N-cobalt (III) chloride entaammine nitrito-Cobalt (III)chloride entaammine nitrito-Cobalt (II) chloride	
8.	(A) N	h of the following cannot be prepared by using Williamson Synthesis?  Methoxybenzene (B) Benzyl p-nitrophnenyl ether  ert-butyl methyl ether (D) Di-tert butyl ether	
9.	Out o	of $Fe^{2+}$ , $CO^{2+}$ , $Cr^{3+}$ , $Ni^{2+}$ the one which shows highest magnetic mo	ment is:
	(A) F	(At.number : Cr = 24, Fe = 26, Co = 27, Ni = 28)	(D) Ni <sup>2+</sup>
10.	(A)Z	emmensen Reduction, carbonyl compound is treated with linc amalgam $+ HCl$ (B) Sodium amalgam $+ HCl$ inc amalgam $+ HNO_3$ (D) Sodium amalgam $+ HNO_3$	

A first order reaction is found to have a rate constant,  $k = 5.5 \times 10^{-14} \text{ s}^{-1}$ . The time taken for

(D) It never goes to completion

(B)  $2.52 \times 10^{13} s$ 

	:: 2 ::		
	The IUPAC name of $(CH_3)_3$ $C - CH_2$ $Br$ is (A) 2, 2 - Dimethyl - 2 bromopropane (B) 1 - Bromo - 2, 2, 2 - trim (C) 2 - Bromo - 1, 1, 1 - trimethyl ethane (D) 1 - Bromo - 2, 2 - dimet		
labelle	estions number 13 to 16, two statements are given – one labelled as Assertion (A) d as reason (R). Select the correct answer to these questions from the codes (A), (I	and the other 3), (C) and (D) as	
(B) Bot (C) Ass	th Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation th Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation sertion (A) is true, but Reason (R) is false.  Sertion (A) is false, but Reason (R) is true.	n of (A). n of Assertion (A).	
13.	Assertion (A): Order of a reaction can be fractional but molecularity is never fra Reason (R): Order of a reaction does not depend upon the stoichiometric coefficient balanced equation.		
14.	Assertion (A): $Cu^{2+}$ iodide is not known. Reason (R): $Cu^{2+}$ oxidises $I^{-}$ to Iodine.		
15.,	Assertion (A): D (+) – Glucose is dextrorotatory.  Reason (R): 'D' represents its dextrorotatory nature.		
16.	Assertion (A): Aromatic primary amines can be prepared by Gabriel Phthalimic Reason (R): Aryl halides cannot undergo nucleophilic substitution in this reaction		
	SECTION – B  This section contains 5 questions with internal choice in one question. The following questions are very short answer type and carry 2 marks		
17.	Write the hydrolysis products of: (a) Sucrose (b) Lactose	(2)	)
18. (a)	Give chemical tests to distinguish between the following pair of compounds:  (i) Ethanal and Propanone  (ii) Acetophenone and Benzophenone  OR	(2)	)
(b)	Account for the following:  (i) Aldehydes are more reactive than Ketones towards nucleophilic addition reactive (ii) Carboxylic acid is a stronger acid than phenol. Explain	ctions.	
19.	Write the reaction involved in the following:  (a) Reimer-Tiemann reaction.  (b) Kolbe's reaction.	(2	)
20.	For a zero order reaction, show that the time required to complete 3 /4 <sup>th</sup> of reactions the time required to complete half of the reaction.	ion is equal to 1.5	()
21.	Write the structure of major organic product in each of the following reactions:		
	(a) $(CH_3)_3CBr + KOH \xrightarrow{ethanol,heat}$		
	(b) $C_6H_5ONa + C_2H_5Cl \rightarrow$ Section – C		
	This section contains 7 questions with internal choice in one questions are short answer type and carry 3 marks ex	on. ach.	
22.	What happens when:  (a) Methyl chloride reacts with alc KCN.  (b) Phenol is treated with aq. Br <sub>2</sub> .  (c) Benzyl methyl ether reacts with HI.	(:	3)
23.	A reaction is first order in A and second order in B.  (a) Write differential rate equation.  (b) How is the rate affected on increasing the concentration of B three times.  (c) How is the rate affected when concentration of both A and B is doubled?	(	(3)

(3)

Contd...3

:: 3 :: 24. Account for the following: (a) The dipole moment of chlorobenzene is lower than that of cyclohexyl chloride. (b) Grignard reagents should be prepared under anhydrous conditions. (c) Phenol is more acidic than ethanol. (3)25. (a) Convert the following: (i) Benzene to aniline. (ii) Nitrobenzene to Benzoic acid. (iii) Aniline to Benzyl alcohol. (3)OR (b) Arrange the following: (i) In decreasing order of  $pK_b$  values  $C_2H_5NH_2$ ,  $C_6H_5NHCH_3$ ,  $(C_2H_5)_2NH$  and  $C_6H_5NH_2$ (ii) In increasing order of boiling point  $C_2H_5OH$ ,  $(CH_3)_2NH$ ,  $C_2H_5NH_2$ (iii) In decreasing order solubility in water  $C_2H_5NH_2$  ,  $(C_2H_5)_2NH$  ,  $C_2H_5OH$ At 300 k, 36 g of glucose present in a litre of its solution has an osmotic pressure of 4.98 bar. If 26. the esmotic pressure of the solution is 1.52 bar at the same temperature, what would be its concentration? (3)Write the Nernst Equation and calculate emf of the following cell at 209 k. 27.  $Fe(s)|Fe^{2+}(0.001 M)||H^{+}(1M)|H_{2(g)}1bar, Pt$ (3) 28. (a) Give one difference between double salt and coordination compound. (b) Draw the structures of optical isomers of  $[Cr(C_2O_4)_3]^{3-}$ (c) Predict the number of unpaired electrons in the square planar  $[Pt(CN)_A]^{2-}$  ion. (At. no. of Pt=78) (3)Section D The following questions are case-based questions. Each question has an internal choice and carries 4 (2+1+1) marks each. Read the passage carefully and answer the questions that follow: 29. The addition of non-volatile substances to a solvent decreases the vapour pressure. The freezing point depression is referred to as a colligative property and its value is proportional to the molality of the solution. The other three colligative properties are relative lowering of vapour pressure, elevation in boiling point and osmotic pressure. These properties depend on number of solute particles and not on their nature. Answer the following questions on the basis of above information: (a)  $0.1 \, M \, K_4[Fe(CN)_6]$  is 60% dissociated. Calculate its Van't Hoff factor. (2)(b) Give example of a solution in which solute molecules undergo association in solution. (1) Which of the following will have highest Van't Hall factor? (Assume 100% dissociation) NaCl , CaCl2 , Ca3(PO4)2 (c) Which colligative property is preferred for the molar mass determination of macromolecules? DNA is made of chemical building blocks called nucleotides. These building blocks are made of 30. three parts: a phosphate group, a sugar group and one of the four types of nitrogen bases. These bases are: adenine, thymine, guanine and cytosine. Based on the above information, answer the following questions: (a) (i) Name the purines present in DNA. (ii) Give two functions of DNA. (2) (b) What is a nucleoside? (1) OR What are the four nitrogen bases in RNA? (c) Give the complementary strand of the following strand of DNA: ATCGTT. (1)

#### Section E

The following questions are long answer type of question and carry 5 marks each.

All questions have an internal choice.

31. (a) What happens when (complete the reaction) (3) $C_6H_5CHO \xrightarrow{NH_2NHCONH_2}$ (b) An organic compound with the molecular formula  $C_9H_{10}O$  forms 2, 4 – DNP derivative, reduces. Tollens' reagent and undergoes Cannizaro reaction. On vigorous oxidation, it gives 1, 2 - benzene dicarboxylic acid. Identify the compound. (a) How will you bring about the following conversions in not more than two steps? (i) Propanone to propene. (ii) Benzoic acid to Benzaldehyde. (3) (iii) Ethanol to 3 - Hydroxy butanal. (b) Explain the following: (with reaction) (i) Cannizaro reaction (2) (ii) HVZ reaction (5)32. Answer the following: (1 mark each) (a) Lanthanoids have poor tendency to form complex compounds. Explain (1)(b) Why  $Mn^{2+}$  is a good oxidising agent? (1)(c) Why  $Ni^{2+}$  is more stable than  $Pt^{2+}$ , whereas  $Pt^{4+}$  is more stable than  $Ni^{4+}$ ? (1) (d) Zn, Cd and Hg are quite soft and have low melting point. Explain. (1) (1) (e) Explain Lanthanoid contraction. OR (a) Complete and balance the reaction:  $Fe^{2+} + MnO_4^- + H^+ \rightarrow$ (b) What happens when KMnO<sub>4</sub> is heated at 513 K? (c) Out of  $Cr^{2+}$  and  $Fe^{2+}$ , which one is a stronger reducing agent and why? (d) Give one use of Lanthanoids. (e) Actinoid contraction is greater from element to element than lanthanoid contraction. Why? 33. (a) What type of battery is the lead storage battery? Write the anode and cathode reactions and the overall reaction occurring in a lead storage battery when current is drawn from it. (3)(b) A solution of  $Ni(NO_3)_2$  is electrolysed between platinum electrodes using a current of 5.0 ampere for 20 minutes. What mass of nickel is deposited at the cathode? (At. Mass of Ni=58.7) (2) OR (1) (a) (i) State Kohlrausch's Law. (ii) Predict the products of electrolysis when an aqueous solution of AgNO3 is electrolysed with (1)silver electrodes. (iii) How much electricity in terms of Faraday is required to produce 20.0 g of Ca from molten (1) CaCl2. (At. Mass of Ca=40) (b) The conductivity of 0.20 M solution of KCl at 298 K is  $0.0248 \, S \, cm^{-1}$ . Calculate its molar (2)conductivity.

(ශ්රන්රන නානාන)



# DELHI PUBLIC SCHOOL, BHILAI (C.G.)

DATE: 09-12-2024 PREBOARD EXAMINATION, 2024

Time: 3 Hours

CLAS\$: XII

BIOLOGY

M.M: 70

### **General Instructions:**

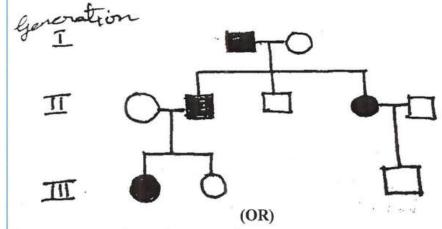
- 1) This question paper contains 33 questions. All questions are compulsory.
- 2) This question paper is divided into 5 sections A,B, C, D and E.
- 3) In Section A Questions no.1 to 16 are multiple choice (MCQ) type questions, carrying 1 mark each.
- 4) In Section B Questions no.17 to 21 are very short answer (VSA) type questions, carrying 2 marks each.
- 5) In Section C Questions no.22 to 28 are short answer type (SA) type questions, carrying 3 marks each.
- 6) In Section D Questions no.29 and 30 are case-based questions carrying 4 marks each. Each question has subparts with internal choice in one subpart.
- 7) In Section E Questions no. 31 to 33 are long answer (LA) type questions carrying 5 marks each.
- 8) There is no overall choice. However, an internal choice has been provided in 1 question in Section B, 1 question in Section C, 2 questions in Section D and 3 questions in Section E. A candidate has to attempt only one of the alternatives in such questions.
- 9) Wherever necessary, neat and properly labelled diagram should be drawn.
- SECTION A 1) Genetic diversity refers to the diversity in genetic makeup of organisms that are capable of interbreeding. What component of an ecosystem does genetic diversity directly impact? (a) ecosystem diversity (b) species diversity (c) species richness (d) ecological niche 2) In which of the following natural processes is recombinant DNA made? (a) Prophase in mitosis (b) Prophase I in meiosis (c) Prophase II in meiosis (d) r-DNA cannot be made naturally (1)3) Immund suppressants are administered to patients post organ transplantation and also to the those suffering from autoimmune disorders. In which of the following ways are immune suppressants helpful? (a) They trigger allergic response. (b) They eliminate unhealthy tissues. (c) They control the cell mediated response. (d) They differentiate between self and non-self parts of the body. A scientist measured BOD of water from the kitchen tap (sample P) and sewer pipe (sample Q). Choose the correct statement. (a) The BOD of sample P will be lesser than sample Q. (b) The BOD of sample P will be greater than sample O. (c) The BOD of sample P will be equal to that of sample Q. (d) Both samples cannot be compared without additional data. 5) In a cross between pea plants having round green seeds (RRGG) and wrinkled yellow seeds (rr gg), which percentage of eggs will carry both the round and green alleles for the F2 generation? (a) 9% (b) 93% (c) 64% (d) 25% 6) Marfan syndrome is a connective tissue disorder in humans caused due to the mutation of the FBN1 gene coding for fibrillin - 1. Some symptoms of the disease are abnormally long limbs, heart murmurs and extreme nearsightedness. This syndrome is an example of (1)(a) Chromosomal disorder (b) Polygenic inheritance (c) Codominance (d) pleiotropy 7) The most likely reason for the bees to visit the banana flowers are (1) (a) for fertilization (b) for pollination (c) to collect pollens (d) to collect nectar 8) Which of the following is an indicator of a reproductively unhealthy society? (1) (a) increase in infant mortality rate (b) decline in maternal mortality rate

(c) widespread awareness of contraceptive methods (d) detection and cure of STDs

9) Competitive exclusion principle states that inferior species is eliminated eventually after prolonged competition was given by: (1)(a) Allen (b) Gause (c) Pearl Verhulst (d) Darwin 10) During human embryonic development the heart in the embryo is formed after: (1)(a) 16 days of pregnancy (b) 30 days of pregnancy (c) 45 days of pregnancy (d) 60 days of pregnancy 11) Two food chains X and Y are linked together to form a food web. (1)X living oak leaf ----> moth/caterpillar----> insectivorous bird → Hawk dead oak leaf ----> A = Shrew X Y A (a) DFC **GFC** Bacterium (b) DFC **GFC** Detritivore (c) GFC DFC Detritivore (d) GFC DFC Grasshopper 12) The antibody which can cross placental barrier is (1)(a) I<sub>g</sub>A (b) I<sub>g</sub>E (c) I<sub>g</sub>M (d) I<sub>g</sub>G In each of the following questions, a statement of Assertion (A) is given followed by corresponding statement of Reason (R). Of the statements, mark the correct answer as (a) If both A and R are true and R is the correct explanation of A (b) If both A and R are true, but R is not the correct explanation of A. (c) If A is true, but R is false. (d) If both A and R are false. 13) Assertion (A): Periodic abstinence is a natural method of birth control where couples avoid intercourse from day 10 to 17 of the menstrual cycle. (1) Reason (R): Ovulation occurs around the middle of the menstrual cycle. 14) Assertion (A): DNA dependent RNA polymerase catalyses polymerization in the 5' to 3' direction. (1) Reason (R): The strand with 5' to 3' polarity is called the coding strand. 15) Assertion (A): Darwin's finches have different types of modified beaks according to their (1)feeding habits Reason (R): Adaptive radiation leads to development of structures with different function arising from a common ancestor. (1)16) Assertion (A): Tropical rainforest are rich in species diversity than temperate forest. Reason (R): Frequent glaciation was quite common in temperate region and absent in tropical rainforest. SECTION B 17) CRISPR is a gene editing technique for which the developers won the Nobel prize. Indian scientists are in the process of developing resilient and high yielding varieties of rice using the (2)technology and providing these to Indian farmers by 2024, once approved. (a) Which organization would be responsible for approving such varieties? (b) What is the purpose of establishing the organization identified in (a)? 18) Meiotic arrest is a phenomenon noticed during oogenesis in human females where oocytes are (2)arrested in the primary oocyte stage. (a) What is the chromosomal count of these primary oocytes?

(b) How are these primary oocytes converted to ovum?

- 19) One strand of a DNA segment is made up of repeats of Adenine and cytosine 5'ACACACAC3'. (2) Draw the formation of a dinucleotide (AC) and its base pair from nitrogenous bases.
- 20) Drug abuse is a common problem faced by countries around the world today due to its impact on the health and well being of an individual. Some drugs make an individual sleepy while some other make them hyper energetic. Using appropriate examples, explain this statement. (2)
- 21) Given below is a pedigree chart for an autosomal dominant disorder characterized by trait 'A'
  - (a) What evidence in the pedigree chart helps established that the condition is caused by a dominant allele?
  - (b) What are the genotypes of the affected and unaffected individuals? (2)



Using the Punnett square, determine the genotype of the parents if their child can have any of the four blood groups.

### SECTION C

- 22) What are the different kinds of stem cells. Give any two applications of them.
- 23) State the agent(s) which helps in pollinating in the following plants.

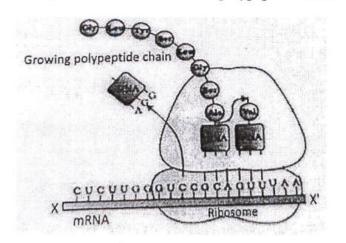
  Explain the adaptations in these plants to ensure pollination. (3)
  - (a) Corn (b) Water hyacinth (c) Vallisneria
- Name the basic classes of antibiotics. Rajesh was suffering from flu. He stopped taking the antibiotics after two days and did not consume as prescribed by the doctor. How will it effect him in future?

(OR)

Name the group of bacteria involved in setting milk into curd. Explain the process they carry in doing so. Write another beneficial role of such bacteria.

- 25) (a) Rearrange the following from early to late geologic periods:

  Carboniferous, Silurian, Jurassic
  - (b) Write the characteristics of Dryopithecus and neanderthal man.
- 26) Enlist any three outbreeding devices that flowering plants have developed and explain how they help to encourage cross pollination? (3)
- 27) (a) Identify the polarity of x to x' in the diagram below and mention how many more amino acids are expected to be added to this polypeptide chain. (3)



(b) Mention the codon and anticodon for alanine.

(3)

(3)

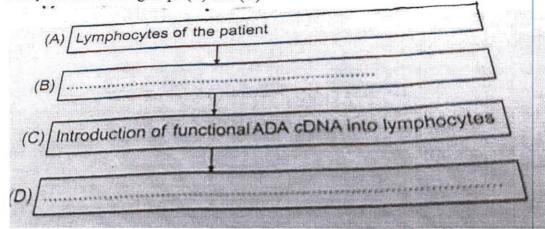
- (c) Why are some untranslated sequences of bases seen in mRNA coding for a polypeptide? Where exactly are they present on mRNA?
- Describe the interrelationship between productivity, gross primary productivity and net primary productivity. (3)

#### SECTION D

29) The clinical gene therapy is given to a 4 years old patient for an enzyme which is immune system to function.. (4)

Observe the therapeutical flow chart and give the answer of the following:

(i) Complete the missing steps (B) and (D)



- (ii) Identify the disease to be cured.
- (iii) Why the above method is not a complete solution to the problem?

### (OR)

Scientists have developed a method to cure this disease permanently. How?

30) Aminocentesis: A technique known as aminocentesis is used to determine foetal abnormalities. This test is based on the chromosomal pattern in amniotic fluid. However, this technique is legally banned now.
(4)

Read the given passage carefully and give the answer of the

following questions:

- (i) Identify X and Y in the above given figure.
- (ii) What is the function of Z?
- (iii) Mention a non-invasive technique of detecting foetal disorder.

#### (OR)

'Unfortunately this technique is being misused'. Elaborate the context of this statement.

#### SECTION E

31) (i) Draw the sectional view of a seminiferous tubule of human. Label its any six parts.

(5)

growing foetus

Syringe with needle withdraws a

(ii) Name the pituitary hormones involved in the process of spermatogenesis. State their functions.

(OR)

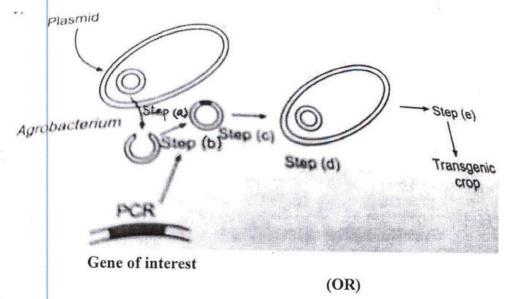
Draw a labelled diagram of an anther lobe at microspore mother cell stage. Mention the role of different wall layers of anther.

List the criteria a molecule that can act as genetic material must fulfill. Which one of the criteria are best fulfilled by DNA or by RNA thus making one of them a better genetic material than the other? Explain. (5)

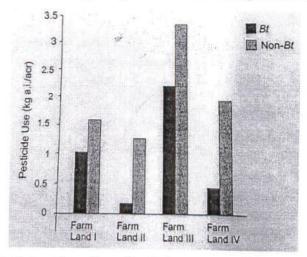
(OR)

Explain the process of transcription in prokaryotes. How is the process different in eukaryotes?

In the given figure, Agrobacterium is utilized for the production of a transgenic crop. Explain the steps a, b, c, d and e shown in the figure.



GM crops especially Bt crops are known to have higher resistance to pest attacks. The substantiate this experimental study was conducted in four different farm lands growting Bt and nonBt-Cotton crops. The farm lands had the same dimensions, fertility and were under similar climatic conditions. The histogram below shows the usage of pesticides on Bt crops and non-Bt crops in these farm lands.



- (i) Which of the above four farm lands has successfully applied the concepts of biotechnology to show better management practices and use of agrochemicals? If you had to cultivate, which crop would you prefer (Bt or Non-Bt) and why?
- (ii) Cotton Bollworms were introduced in another experimental study on the above lands wherein no pesticide was used. Explain what effect would a Bt and Non bt crop have on the pest.

\*\*\*\*\*\*



TIME

# DELHI PUBLIC SCHOOL, BHILAI

DATE: 12.12.2024

CLASS : XII

PREBOARD EXAMINATION 2024-'25 SUBJECT – BIOTECHNOLOGY

T	ime	:	3	Н	rs.	
Лах.	Ma	r	ks	:	70	

Contd...2

Name :		Roll No.:				
AAAA	Question Section Section Section	nctions: on paper consists of five sections A, B, C, D and E. A has 16 questions of 1 mark each. B has 05 questions of 2 marks each. C has 07 questions of 3 marks each. D has 02 Case based questions of 4 marks each. E has 03 questions of 5 marks each.				
		Section – A				
1.	(A) Ha	pial source of Hind III restriction enzyme is emophilus influenzae (B) Haemophilus aegyptius emophilus haemolyticus (D) Haemophilus felis	(1)			
2.	(A) Ro	que of introducing colours into DNA by nick translation was developed by us and Jones (B) Rigby and Paul Berg ward Sanger (D) Kary Mullis and Parul Berg	(1)			
3.	Acalig (A) St	enes cutrophus is associated with the production of – reptomycin (B) Pencillin (C) Hepatitis Antigen (D) Poly-3-hydroxybutynate	(1)			
4.	(A) ar	genic plants which over express compounds like mannitol, sugars and proline e pest resistant Oduce more secondary metabolites  (B) are abiotic stress tolerant (D) are weedicide tolerant	(1)			
5.		n who lack the ability to produce Factor VIII has heritable genetic disorder aemophilia A (B) Haemophilia B (C) Christmas disease (D) stroke	(1)			
6.	The g	PPPOCH, OBASE				
		'deoxynucleotide triphosphate '3' dideoxy nucleotide triphosphate (B) Ribose sugar (D) 3'dideoxynucleotide triphosphate	(1)			
7.		h chromosome changes to Philadelphia chromosome due to reciprocal translocation. Chromosome 9 (B) Chromosome 22 (C) Both (A) and (B) (D) Chromosome 24	(1)			
8.		cells in the primary cell culture can be grown as dherent cells (B) Suspension cells (C) Culturing cells (D) Both (A) and (B)	(1)			
9.		somatic embryogenesis was first demonstrated in Radish (B) Potato (C) Brinjal (D) Carrot	(1)			
10.	(A) Y (B) I (C) I	blue – white selection we infer that White colonies represent non recombinant bacteria. Blue colonies represent non recombinant bacteria. Blue colonies represent recombinant bacteria. Blue and white colonies represent non recombinant bacteria	(1)			
11.	<u></u>	What does X represent (A) Cell density (B) Substrate concentration (C) Turn over rate (D) Time of reaction	(1)			

- :: 2 :: Citric acid a commercial product is isolated from which microorganism. 12. (A) Aspergillus oryzae (B) E.Coli (D) Streptomycin griseus (1) (C) Aspergillus niger For Questions 13 to 16, two statements are given - one labelled Assertion (A) and other labelled Reason (R). Select the correct answer to these questions from the options given below: (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A). (B) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A). (C) Assertion (A) is true but Reason (R) is false. (D) Assertion (A) is false but Reason (R) is true. Assertion (A): Ripening of fruits can be slowed by blocking ethylene production. Reason (R): Ethylene forming gene will suppress it own expression in the crop plant. (1) Assertion (A): Yeast cells having Yep plasmid can grow on a medium lacking leucine and hence can be selected. Reason (R): Leu 2 gene codes for an enzyme required for the synthesis of amino acid leucine. (1)Assertion (A): EPO is a glycoprotein hormone formed in the foetal liver and kidney of the adults. Reason (R): It causes proliferation of progenitor cell into erythrocytes in the bone marrow. (1) Assertion (A): Foaming is a problem in most microbiological culture. (1) Reason (R): Foaming is caused by oil and silicones. Section - B 17. Calculate the generation time or the doubling time of a bacterial population in which the number of bacteria increases from  $10^4 ml$  to  $10^7 ml$  during four hours of exponential growth. (2) 18. Give reason:
- (a) 2D gel electrophoresis is considered a suitable technique for studying proteomics. (b) Whey has been administered to the sick for the treatment of numerous ailments. (2)
- How are the following traits created in transgenic crops. (2)(b) Insect resistance (a) Herbicide tolerance
- 20. Animal cell cultures are grown in CO2 incubators rather than BODs. Why? (2) Explain the mode of action of tPA with the help of diagram.

BORGE TO BEE ddT ddA ddC ddG **BOO**0 ABCORGO 000000G BOOK DOOR BOCOCCEC THE THE THE PARTY OF THE PARTY G

(a) Write the original strand of the above electrophoretic gel.

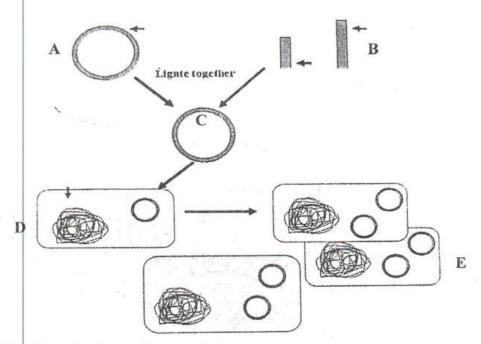
(b) Expand RFLP. State an application of it.

21.

(2)

#### Section - C

22.



- (A) What does the above diagram depict.
- (B) Identify A, B, C, D and E.
- (C) How do bacteria protect itself from bacteriophages?
- (D) How can DNA be prevented from religation?

(3)

(3)

(3)

- 23. How are monoclonal antibodies produced? Explain the production of it with the help of diagram. State an application of it.
- 24. Expand NCBl. What are the various resources available under NCBl. Explain any two.
- 25. Write the importance of the following in animal cell culture and how is it maintained?

  (a) pH

  (b) Osmolality

  (3)
- 26. What are secondary metabolites? Suggest any four secondary metabolites and its source that are useful in medicine.

OR (3)

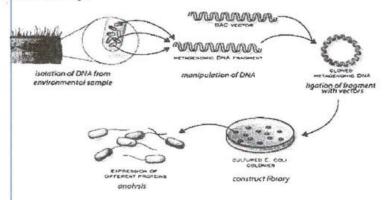
What can be done to raise

- (a) Hybrids of interspecific cross.
- (b) Male sterile plants production.
- 27. Draw a well labelled diagram of artificial seed. Why and how are these seeds produced? (3)
- 28. Expand SNP. State any four applications of it. How can they be used to predict susceptibility to diseases. (3)

# Section - D

29. Case based Study:





- (a) What does the above figure depict? State the principle of it.
- (b) State two applications of it.
- (c) Pichia pastoris is better than Sacchromyces cerevisea.

OR

What are problems to be tackled when eucaryotic gene is expressed in procaryotes.

30. Chymotrypsin is synthesized in the pancreas and through pancreatic duct get released into the duodenum. Nature has ensured that chymotrypsin and other proteolytic enzymes are synthesized in harmless precursor form. The enzyme catalytic triad is important for its function.

Answer the following:

(4)

(5)

- (a) What is in situ activation? Name the precursor of chymotrypsin.
- (b) Write the structure of chymotrypsin.

(c) What is charge relay system?

OR

What is subtilisin? What is the catalytic triad of subtilisin?

#### Section - E

31. An analytical device is used to determine and analyze protein sample as little as picomoles.

(a) Name the device.

(b) Explain the principle the process and the major parts of the device.

(c) Draw a well labelled diagram of its parts.

Explain the process of generating peptide map of a person suffering from sickle cell anaemia with the help of flow sheet diagram. State the cause of it and principle of it.

OR

32. Explain the process of amplifying specific segments of DNA or to generate fragments of DNA for cloning with the help of diagram. State an application of it.

(5)

- (a) What are the different methods of introducing rDNA into the host cells.
- (b) How recombinant plasmids are screened using blue-white selection.
- 33. State the reason:

(a) The relationship between the number of genes and number of proteins is not linear.

(b) Embryonic Stem Cells are important for diagnostics and therapeutic modalities.

(c) It is important to have the structural functional and expressional information of proteins in human genomics.

(a) Explain the technology with help of diagram to monitor the whole genome of a given organism in a single chip.

(b) State the principle and procedure.

(c) Expand FISH. State the difference between a probe and a primer.

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# DELHI PUBLIC SCHOOL, BHILAI

DATE: 09.12.2024

CLASS: XII

# PREBOARD EXAMINATION 2024-'25 SUBJECT - COMPUTER SCIENCE (083)

Time: 3	Hrs.
Max. Mark	s : 70
Roll No.:	

# **General Instructions:**

Name:

This question paper contains 37 questions.

- All questions are compulsory. However, internal choices have been provided in somequestions. • Attempt only one of the choices in such questions
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks. 0
- Section C consists of 3 questions (29 to 31). Each question carries 3 Marks. 0
- Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 Marks. All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

V.	Section - A (21 x 1 = 21 Marks)	Marks
No. 1.	State True or False: While defining a function in Python, the positional parameters in the function header	
2.	What possible output from the given options is expected to be displayed when the following Python code is executed?  import random  Signal = ['RED', 'GREEN', 'YELLOW']  for K in range(2,0, -1):  R = random.randrange(K)  print(Signal[R],end='#')	(1)
	(A) YELLOW#RED# (B) RED#GREEN# (C) #GREEN#RED# (D) YELLOW#GREEN#	
3.	Which of the following expressions evaluates to False?  (A) not(True) and False (B) True or False (C) not(False and True) (D) True and not(False)	(1)
4.	Select the correct output of the following code:  Event = 'G@20 Presidency@2023'  L = Event.split(' ')  print(L[::-2])	(1)
	(A) 'G20' (B) ['Presicency@2023'] (C) ['G20'] (D) 'Presicdency@2023'	
5.	print ('The sum of {0:b} and {1:x} is {2:o}'.format(2, 10, 12))  (A) The sum of 2 and 10 is 12  (B) The sum of 10 and a is 14  (C) The sum of 10 and a is c  (D) Error	(1)
6.	numberGames = {} numberGames[(1,2,4)] = 8 numberGames[(4,2,1)] = 10 numberGames[(1,2)] = 12 sum = 0 for k in numberGames: sum += numberGames[k] print(len(numberGames) + sum)	(1)
	(A) 30 (B) 24 (C) 33 (D) 12	

7.	How will you add these items to the already created empty dictionary? Suppose I want to have the following output:	
	{0: 'welcome', 2: 'to', 3: 'include help'}	. بوز
	A. Dict[0] = 'welcome' Dict[2] = 'to'	(1)
	B. Dict[3] = 'include help' [0] = 'welcome' [2] = 'to' [3] = 'include help'	
	C. Dict[0] = [0:'welcome'] Dict[1] = [2:'to'] Dict[2] = [3: 'include help']	
	D. None of the above	
8.	What will be the output of the following Python code?  a=[13,56,17]  a.append([87])  a.extend([45,67])  print(a)	(1)
	(A) [13, 56, 17, [87], 45, 67] (B) [13, 56, 17, 87, 45, 67]	
0	(C) [13, 56, 17, 87, [45, 67]] (D) [13, 56, 17, [87], [45, 67]] If a table which has one Primary key and two alternate keys. How many Candidate keys	
9.	will this table have?  (A) 1 (B) 2 (C) 3 (D) 4	(1)
10.	Write the missing statement to complete the following code:	
	file = open("cbse.txt", "r") data = file.read(50)  #Move the file pointer to thebeginning of the file	(1)
	next_data = file.read(50)	
1.1	State whether the following statement is <b>True or False</b> :	
11.	While handling exceptions in python, name of the exception has to be compulsorily added with except clause.	(1)
12.	x = 50	
	def func():     global x     print('x is', x)     x = 2	
	print('Changed global x to', x) func() print('Value of x is', x) (A) x is 50	(1)
	Changed global x to 2 Value of x is 50	
	(B) x is 50 Changed global x to 2 Value of x is 2	
	(C) x is 50 Changed global x to 50 Value of x is 50	
	(D) None of the mentioned	(1)
13.	Which SQL command can change the cardinality of an existing relation?  Suppose you are asked to display all the names with 'a' as their second character. Which	(1)
14.	query pattern will you use?  (A) a%; (B) a; (C) a%; (D) %a;	(1)
15.	In which data type the value stored is padded with spaces to fit the specifiedlength.  (A) DATE  (B) VARCHAR  (C) FLOAT  (D) CHAR	(1)
16.	Which aggregate function can be used to find the cardinality of a table?  (A) sum() (B) count() (C) avg() (D) max()	(1)
17.	Which of these components is internal to a computer and is required to connect the computers to a network?	(1)
	(A) Wireless Access Point (B) Network Interface Card (C) Switch (D) Hub	Conto

[9] Which protocol holds the email only until you receive it? (A) SMTP (B) FTP (C) IMAP (D) POP3  Q20 and Q21 are Assertion (A) and Reason(R) based questions, Mark the correct choice sts: (A) Both A and R are true and R is the correct explanation for A (B) Both A and R are true and R is not the correct explanation for A (C) A is True but R is False (D) A is False but R is False (D) A is A is False but R is False (D) A is A i	(2) Modem (B) Gateway (C) Switch (D) Repeater (C)  Which protocol holds the email only until you receive it? (A) SMTP (B) FTP (C) IMAP (D) POP3 (1)  Q20 and Q21 are Assertion (A) and Reason(R) based questions. Mark the correct choice as: (A) Both A and R are true and R is the correct explanation for A (C) A is True but R is False (D) A is False but R is True  Q20 Assertion (A): DDL and DML are part of SQL. Reasoning (R): Both DDL and DML are interchangeable.  Q3 Assertion (A): DDL and DML are part of SQL. Reasoning (R): The document for the Python module should be written in a triple quotes strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  Q4 In the Gate of the Command of the Python module should be written in a triple quotes are riple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  Q5 In the Gate of the Python module should be written in a triple quotes are riple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  Q6 In the Gate of the Python are return the string in Python that are displayed as documentation when the help "module" command is issued.  Q6 In the Gate of the Python are returns the string in Python that are displayed as a maximum possible values in the variable b. import random as "Pytegramming" be random.randin(3,8) for it in range(0,b3,3); print(a[i], end = ***)  Q7 If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[1,0,2,0,0,40,50], then (A) Write a statement to sort the elements of its L1 in ascendingorder.  Q8 (C) Write a statement to insert all the elements of its L1.  Q8 Write a statement to reverse the elements of its L2.  Q9 In the Python after removing all syntax error(s):  Q1 DELHI MUMBAI CHENNAI (C) DELHI MUMBAI CHENNAI (C		:: 3 ::	
(a) Modem (b) Uniterway (c) White protocol holds the email only until you receive it? (A) SMTP (B) FTP (C) IMAP (D) POP3 (1) Q20 and Q21 are Assertion (A) and Reason(R) based questions. Mark the correct choice is: (A) Both A and R are true and R is the correct explanation for A (B) Both A and R are true and R is not the correct explanation for A (C) A is True but R is False (D) A is False but R is False (D) A is False but R is False (D) A is False but R is False (E) DDL and DML are part of SQL. (E) Reasoning (R): Both DDL and DML are interchangeable. (D) A is False but R is False (E) Reasoning (R): Both DDL and DML are interchangeable. (D) A is False but R is False (E) Reasoning (R): Both DDL and DML are interchangeable. (D) A is False but R is False (E) Reasoning (R): Both DDL and DML are interchangeable. (D) A is False but R is False (E) Reasoning (R): Both DDL and DML are interchangeable. (D) A is False but R is False (E) Reasoning (R): Both DDL and DML are interchangeable. (D) White a statement to strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (D) Wite a correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random are "Programming" be random.nadint(3,8) for in range(0,a-3:*)  (D) Wite a statement underscore (⊃). (E) For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string where every Nth alphabet of the word W is replaced with an underscore (⊃). (E) For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE. EV. SI. N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,3,0,40,50], then (Answer using built-in functions only) (A) White a statement to sort the elements of list L1 in ascendingorder. (D) Write a statement to sort the elements of list L1 in ascendingorder. (D) Write a statement to sort the elements of list L2.  25. What is the possible outcome(s) after executing the f	(2) Which protocol holds the email only until you receive it?  (A) SMTP (B) FTP (C) IMAP (D) POP3 (1)  Q20 and Q21 are Assertion (A) and Reason(R) based questions. Mark the correct choice is:  (A) Both A and R are true and R is the correct explanation for A (B) Both A and R are true and R is not the correct explanation for A (D) A is True but R is False (D) A is False but R is True  (Easoning (R): Both DDL and DML are part of SQL.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The document for the Python module should be written in a triple quotes strings.  Reasoning (R): The document for the Python module should be written in a triple quotes strings are triple quotes strings in Python that are displayed as documentation when the help 'smodule command is issued.  (D) Write a statement of the following code. Also, write the minimum and maximum possible values in the variable b.  Import random are 'Programming'  be random. randint(3.8)  for it nange(t,b.3):  print(t and statement to insert all the elements of its L1 in ascendingorder.  (D) Write a statement to insert all the elements of its L1 in ascendingorder.  (D) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of its L2.  25. What is the possible outcome(s) after executing the following code?  import random  P(CK=random.randint(0.3)  P(T) P(T) P(	18.		(1)
(A) SMTP (B) FTP (C) IMAP (D) FUSTAS (C)  Q20 and Q21 are Assertion (A) and Reason(R) based questions. Mark the correct choice as:  (A) Both A and R are true and R is the correct explanation for A  (B) Both A and R are true and R is not the correct explanation for A  (C) A is True but R is False  (D) A is False but R is True  20. Assertion (A): DDL and DML are part of SQL. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help 4module ocommand is issued.  (1)  Q No Section - B (7 x 2=14 Marks)  [1]  Q No Section - B (7 x 2=14 Marks)  [2]  Michigh the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random  a = "Programming"  b = random.randin(3,8)  for i in range(0,b,3):     print(a i , end = ***)  For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SI_N".  24. If Life1,3,2,4,5,6,76,5,4,3 , and L2=[10,20,30,40,50 , then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to orthe elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randin(0,3)  CITY = [DELHI], 'MUMBAI, 'CHENNAI', 'KOLKATA']  for I in CITY:  for I in range(I,PICK):     print((, end = **))	(A) SMTP (2) 1 are Assertion (A) and Reason(R) based questions. Mark the correct choice as:  (A) Both A and R are true and R is the correct explanation for A  (B) Both A and R are true and R is not the correct explanation for A  (C) A is True but R is False  (D) A is False but R is True  (D) A is False but R is True  (E) Assertion (A): DDL and DML are interchangeable.  (E) Reasoning (R): Both DDL and DML are interchangeable.  (E) Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (E) Assertion (A): The document for the Python module should be written in a triple quotes string.  (E) Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (E) Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (E) Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  (E) Interparaming be random.randint(3,8) for it mrange(0,b,3):  (E) print(a[i], end = "*")  (E) Fror example: If W contains the word TELEVISION' and N is 3 then the function should return the string "TE_EV_SIN".  (E) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to reverse the elements of list L1 in ascendingorder.  (C) Write a statement to reverse the elements of list L2.  (E) What is the possible outcome(s) after executing the following code?  (E) Interparamom.randint(0,3)  (C) Write a statement to reverse the elements of list L1.  (E) Write a statement to reverse the elements of list L2.  (E) Write a statement to reverse the elements of list L1 in ascendingorder.  (D) Write a statement to reverse the elements of list L2.  (E) Write is the possible outcome(s) after executing		(C) Conital (11) Manager	(1)
(A) SMTP (B) FTP (C) IMAP (D) FO'S (C)  Q20 and Q21 are Assertion (A) and Reason(R) based questions. Mark the correct choice as:  (A) Both A and R are true and R is the correct explanation for A  (B) Both A and R are true and R is not the correct explanation for A  (C) A is True but R is False  (D) A is False but R is True  20. Assertion (A): DDL and DML are part of SQL. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help 4-module ocommand is issued.  (1)  Q No Section - B (7 x 2=14 Marks)  [1]  Q No I Section - B (7 x 2=14 Marks)  [2]  Marks I dientify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random  a = "Programming"  b = random-randin(3,8)  for i in range(0,b,3):     primit(s[i], end = "a")  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an undersoore ().  For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SI_N".  24. If Li=[1,3,2,4,5,6,7,6,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random-randin(3,3)  CTTY = [DELHI], 'MUMBAI, 'CHENNAI', 'KOLKATA']  for I in cTTY:  for I in range(LPICK):     primit(, end = ")     primit(, en	(A) SMTP (2) 1 are Assertion (A) and Reason(R) based questions. Mark the correct choice as:  (A) Both A and R are true and R is the correct explanation for A  (B) Both A and R are true and R is not the correct explanation for A  (C) A is True but R is False  (D) A is False but R is True  (D) A is False but R is True  (E) Assertion (A): DDL and DML are interchangeable.  (E) Reasoning (R): Both DDL and DML are interchangeable.  (E) Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (E) Assertion (A): The document for the Python module should be written in a triple quotes string.  (E) Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (E) Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (E) Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  (E) Interparaming be random.randint(3,8) for it mrange(0,b,3):  (E) print(a[i], end = "*")  (E) Fror example: If W contains the word TELEVISION' and N is 3 then the function should return the string "TE_EV_SIN".  (E) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to reverse the elements of list L1 in ascendingorder.  (C) Write a statement to reverse the elements of list L2.  (E) What is the possible outcome(s) after executing the following code?  (E) Interparamom.randint(0,3)  (C) Write a statement to reverse the elements of list L1.  (E) Write a statement to reverse the elements of list L2.  (E) Write a statement to reverse the elements of list L1 in ascendingorder.  (D) Write a statement to reverse the elements of list L2.  (E) Write is the possible outcome(s) after executing	10	Which protocol holds the email only until you receive it?	
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choice is:  (A) Both A and R are true and R is the correct explanation for A  (B) Both A and R are true and R is not the correct explanation for A  (C) A is False but R is False  (D) A is False but R is False  (D) A is False but R is True  20. Assertion (A): DDL and DML are part of SQL. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): The document for the Python module should be written in a triple quotes string. Reasoning (R): The document for the Python module command is issued.  (I)  Q No  Section — B (7 x 2=14 Marks)  Marks  dentify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random a= 'Programming' b= random-randint(3,8) for i in range(0,b,3): print(a[i], end = '**) print(a[i], end = '**) For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE E V SI N.  24. If Li=1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to ocut the occurrences of 5 in L1. (B) Write a statement to orust the occurrences of 5 in L1. (C) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random-randint(0,3) CITY = [DELHI], 'MUMBAI, 'CHENNAI,' 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(f, end = '')	choice sis:  (A) Both A and R are true and R is the correct explanation for A  (B) Both A and R are true and R is not the correct explanation for A  (C) A is Tirne but R is False  (D) A is False but R is True  (D) A is False but R is True  (D) A is False but R is True  (Reasoning (R): Both DDL and DML are part of SQL.  (Reasoning (R): Both DDL and DML are interchangeable.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): The document for the Python module should be written in a triple quotes string.  (Reasoning (R): Both DML and The Python module should be written in a triple quotes string.  (R): The document of the Python module should be written in a triple quotes string.  (R): The document of the Python module string in Python that are displayed as documentation with a triple quoted strings in Python that are displayed as documentation of the module retrieved as a manufacture of the variable b.  (R): The document of the Python module strings in Python that are displayed as documentation of the variable b.  (R): The document of the Python module strings in Python that are displayed as documentation of the variable b.  (R): The document of the Python and N is 3 then the function should return the string 'The Ev SI N'.  (A) Write a statement to reverse the elements of list L1 in ascendingorder.  (C): Write a statement to reverse the elements of list L1 in ascendingorder.  (C): Write a statement to reverse the elements of list L1 in ascendingorder.  (D): Write a statement		O20 and O21 are Assertion (A) and Reason(R) based questions. Mark the correct	
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(B) Both A and R are true and R is not the correct explanationion A (C) A is False but R is False (D) A is False but R is False (D) A is False but R is True  20. Assertion (A): DDL and DML are interchangeable. Reasoning (R): Both DDL and DML are interchangeable. Resoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help 4-module* command is issued.  (1)  Q No Section — B (7 x 2=14 Marks)  [1]  Q No Section — B (7 x 2=14 Marks)  [2]  [2]  [3]  [4]  [4]  [5]  [6]  [7]  [6]  [7]  [8]  [9]  [9]  [1]  [1]  [1]  [1]  [2]  [2]  [2]  [3]  [4]  [5]  [6]  [7]  [6]  [7]  [7]  [8]  [8]  [9]  [9]  [1]  [1]  [1]  [1]  [1]  [1	(B) Both A and R are true and R is not the correct explanation of A (C) A is False but R is True (D) Assertion (A): DDL and DML are interchangeable. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): Both DDL and DML are interchangeable. Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  (D) Section − B (7 x 2−14 Marks) (D) Marks (D) Section − B (7 x 2−14 Marks) (D) Marks (D) Section − B (7 x 2−14 Marks) (D) Marks (D) Mark		(A) Both A and R are true and R is the correct explanation for A	
(D) A is False but R is True  20. Assertion (A): DDL and DML are interchangeable.  Reasoning (R): Both DDL and DML are interchangeable.  Assertion (A): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help \(^{1}\) module \(^{1}\) command is issued.  Q No  22. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random  a "Programming"  b = random.randint(3,8)  for i in range(0,8):  Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ("_").  For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If Li=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to reverse the elements of list L1 in ascendingorder.  OR  (C) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random  PICK=random.randint(0,3)  CITY = [DELHI], 'MUMBAI, 'CHENNAI', 'KOLKATA'] for I in CITY'  for I in CITY'  for J in range(1,PICK):  print(1 end = '')  print(1)  (A) DELHI DELHI MUMBAI CHENNAI KOLKATA  (B) DELHI MUMBAI CHENNAI KOLKATA  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAI CHENNAI KOLKATA  (E) ARWITE the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE" "  For Si range(0,8):  Print STRING(s)	(D) A is False but R is True  (D) A serriton (A): DDL and DML are part of SQL. Reasoning (R): Both DDL and DML are interchangeable.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help ≤module≥ command is issued.  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  (I)  No Section − B (7 x 2−14 Marks)  Marks  Marks  (I)  Marks  Marks  Marks  (I)  Marks	+	(B) Both A and R are true and R is not the correct explanation or A	
20. Assertion (A): DDL and DML are interchangeable.  21. Assertion (A): The document for the Python module should be written in a triple quotes string.  Reasoning (R): Both DDL and DML are interchangeable.  22. If the document for the Python module should be written in a triple quotes string.  22. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random  a= 'Programming' b= random.randint(3,8) for i in range(0,b,3): print(a[i], end = '*)  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every lith alphabet of the word W is replaced with an underscore (' -'). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE EV_SI_N'.  24. If Li_11_3,2,4_5,6_7_6,5_4,3_1, and L2=[10,20,30,40,50], then (Answer using bullt-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR (C) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PHCK=random.randint(0,3) CITTY = (PDELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA') for I in CITY:     for J in range(1,PICK):         print(1, end = '')         print(2, end = '')         print(3, end = '')         print(4, end = '')         print(5, end = '')         print(6, end = '')         print(7, end = '')         print(8, end = '')         print(9, end = ''')         print(9, end = ''')         print(9, end = ''')         print(9	(1) Researching (R): Both DDL and DML are interchangeable.  Reasoning (R): Both DDL and DML are interchangeable.  Reasoning (R): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help <module> command is issued.  No Section - B (7 x 2-14 Marks)  Marks  Ze. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random a= 'Programming' b= random.randint(3,8) for i in range(0,b,3): print(a[i], end = '*')  Zi. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_'). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SL_N'.  Z4. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of list L2.  Z5. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for 1 in CITY:  for 1 in CITY:  for 1 in range(1,PICK):     print(1, end = *'')     print(1, end = *'')  PICHINAL MEAN AND ALL CHENNAI KOLKATAKOLKATA  (B) DELHI  MUMBAIMUMBAI  CHENNAI KOLKATAKOLKATA  (C) DELHI  MUMBAIMUMBAI  CHENNAI KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI KOLKATAKOLKATA  (E) Rewrite the following code in Python after removing all syntax error(s):  STRING = ""Well COME NOTE" "  For Si nrange(0,8):     Print STRING(s)</module>		(C) A is True but R is False	
Reasoning (R): Both DDL and DML are interchangeable.  21. Assertion (A): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help <module> command is issued.  (1)  Q No Section = B (7 x 2=14 Marks)  12. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random  a= "Programming" b = random.randint(3,8) for i in range(0,b,3): print(a[i], end = **) print(a[i], end = **)  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ("-"). For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SI_N".  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to reverse the elements of list L1 in ascendingorder. OR (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = [DELHI]', *MIONBAI', *CHENNAI', *KOLKATA'] for I in CITY':     for J in range(1,PICK):         print(1, end = **)         PICK=random.randint(0,3)         CITY = [DELHI]', *MIONBAI', *CHENNAI', *KOLKATA']  (C) DELHI         MUMBAIMUMBAI         CHENNAICHENNAI         (C) DELHI         MUMBAIMUMBAI         CHENNAICHENNA</module>	Reasoning (R): Both DDL and DML are interchangeable.  21. Assertion (A): The document for the Python module should be written in a triple quotes string.  Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help <module> command is issued.  (1)  No Section — B (7 x 2=14 Marks)  Marks  (2)  Michigh the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random a = Programming' b = random.randint(3,8) for i in range(0,b,3): print(a[i], end = '*') For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_'). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=pandom.randint(0,3) CITY = [DELHI, 'MUMBAI, 'CHENNAI', 'KOLKATA'] for I in CITY:</module>		(D) A is False but R is True	
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Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help <module>command is issued.  Q No  Section = B (7 x ≥=14 Marks)  Marks  22. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random  a= 'Programming' b = random.randint(3,8) for i in range(0,b-3):     print(a[i], end = '*')     For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If Li=[1,3,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)     (A) Write a statement to count the occurrences of 5 in L1.     (B) Write a statement to insert all the elements of L2 at the end of L1.     (D) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random     PICK=random.randint(0,3)     CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']     for I in TITY:         for J in range(1,PICK):</module>	Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.   (1)		Reasoning (R): Both DDL and DML are interchangeable.	
Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help -smodule-2 command is issued.  22. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random as "Programming" b = random.randint(3,8) for i in range(0,b,3): print(a i , end = 's')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_). For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SL_N".  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random  PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:  for J in range(1,PICK):     print(1, end = '')     print(3, end = '')     print(1, end = '')     print(2, end = '')     print(3, end = '')	Reasoning (R): The doc strings are triple quoted strings in Python that are displayed as documentation when the help "module" command is issued.  No Section – B (7 x 2=14 Marks)  Marks  22. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.  import random  a= 'Programming' b= random.randint(3,8) for i in range(0,b,3):     print(a i , end = 's')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_'). For example: if W contains the word "TELEVISION' and N is 3 then the function should return the string "TE_EV_SLN".  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using bull-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to sort he elements of list L1 in ascendingorder.     OR (C) Write a statement to insert all the elements of list L1. (B) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(1, end = "')         POELHI MUMBAI CHENNAI CH	21.	ateina	
Q No Section — B (7 x 2=14 Marks)  22. Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random as "Programming' b = random.randint(3,8) for in range(0,b,5); print(a[i], end = "")  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ("_"). For example: if W contains the word "FELEVISION" and N is 3 then the function should return the string "TE_EV_SLN".  24. If Li+[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random-randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAP, 'KOLKATA'] for 1 in CITY:  for 1 in range(1,PICK):     print(f, end = "")     print(f, end = """)     print(f, end = """)     print(f, end = """)     print(f, end = """)     prin	Section		Possening (R): The doc strings are triple quoted strings in Python that are displayed as	0.0404.0407
Q No   Section - B ( 7 x 2=14 Marks)   Marks	Identity the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.		documentation when the help <module> command is issued.</module>	(1)
Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b.   import random a= 'Programming' b= random.randint(3.8)   for in range(0,b,3):	Identify the correct output of the following code. Also, write the minimum and maximum possible values in the variable b. import random as "Programming" be random.randint(3,8) for i in range(0,b,3): print(a[i], end = '*')   23.			Marks
maximum possible values in the variable b. import random a "Programming" b = random.randint(3.8) for in range(0,b,3): print(a[i], end = '*')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_'). For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SL_N".  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to sort the elements of list L1 in ascendingorder. OR (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['PDELHI', "MUMBAI', "CHENNAI', "KOLKATA'] for I in CITY:         for J in range(I,PICK):	maxim m possible values in the variable b.  import random a "Programming" b = random.randint(3,8) for i in range(l,b,3): print(a[i], end = "*")  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ( ' '). For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SI_N".  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L1 in ascendingorder.  OR (C) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ["DELHI", 'MUMBAP, 'CHENNAP, 'KOLKATA"] for 1 in CITY: for J in range(l,PICK):     print(l, end = ")     print(l) (A) DELHIDELHH MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI MUMBAIMUMBAI CHENNAICHENNAI (C) DELHI MUMBAI CHENNAI (C) DELHI MUMBAIMUMBAI CHENNAICHENNAI (C) TELHI MUMBAIMUMBAI CHENNAICHENNAI (C)		Section - B (7 x 2-14 that ks)	
import random a= "Programming" b= random.randint(3,8) for i in range(0,b,3): print(a[i], end = "*)  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore (_'). For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SI_N".  24. If LI=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to sent the elements of list L1 in ascendingorder. OR (C) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY= ['DELHI', 'MUMBAI', 'CHENNAP, 'KOLKATA'] for I in CITY:	import random a = 'Programming' b = random.randint(3,8) for i in range(0,b,3):     print(a[i], end = "*)  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ("). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(1, end = "")         print(1, end = "")         print(1, end = "")         print(1, end = "")         print(1, end = "")  DELHI MUMBAIMUMBAI CHENNAICHENNAI (C) DELHI MUMBAIMUMBAI CHENNAICHENNAI (D) DELHI MUMBAIMUMBAI CHENNAI CHENNAI CHENNAI (D) DELHI MUMBAIMUMBAI CHENNAI CHENNAI (D) DELHI MUMBAIMUMBAI CHENNAI (D) DELHI MUMBAIMUMBAI CHENNAI (C) ELHI MUMBAIMUMBAI CHENNAI (C) ELHI MUMBAIMUMBAI CHENNAI (C) ESTRING = ""WELCOME NOTE" " For S in range(0,8): Print STRING(s)	22.	Identity the correct output of the following code. Also, while the immunity the correct output of the following code. Also, while the immunity the correct output of the following code.	
a='Programming' b=random.randint(3,8) for i in range(0,b,3):     print(a i), end = 'n')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_'). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI.N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY: for J in range(1,PICK):     print(1, end = '')     print(1)  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI CHENNAI (C) DELHI MUMBAI CHENNAI KOLKATAKOLKATA  (D) DELHI MUMBAIMUMBAI CHENNAI KOLKATAKOLKATA  (D) DELHI MUMBAIMUMBAI CHENNAI KOLKATAKOLKATA  (E) Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For Sin range[0,8]:     Print STRING(s)  Print STRING(s)	a='Programming' b = random.randint(3.8) for i in range(b,b,3):     print(a[i], end = '*')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore (' ').     For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)     (A) Write a statement to count the occurrences of 5 in L1.     (B) Write a statement to sort the elements of list L1 in ascendingorder.     OR     (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random     PICK=random.randint(0,3)     CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']     for I in CITY:         for J in range(1,PICK):		maximum possible values in the variable of	(2)
b = råndom.randint(3,8) for i in range(0,b,3):     print(a i , end = '*')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random-randint(0,3)     CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(l,PICK):         print(l, end = ' ')         print(l) (A) DELHIDELHI         MUMBAIMUMBAI         CHENNAICHENNAI         KOLKATAKOLKATA  (B) DELHI         DELHI         MUMBAI         CHENNAI         KOLKATAKOLKATA  (C) DELHI         MUMBAIMUMBAI         CHENNAI         KOLKATAKOLKATA  (D) DELHI         MUMBAIMUMBAI         CHENNAI         KOLKATAKOLKATA  (E) Rewrite the following code in Python after removing all syntax error(s):         STRING = "WELCOME NOTE" "         For Sin range[0,8]:         Print STRING(s)	b = random.randint(3,8) for i in range(0,b,3):     print(a[i], end = '*')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L1 in ascendingorder.  OR  (C) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAP, 'CHENNAP, 'KOLKATA'] for I in CITY: for J in range(1,PICK):     print(1, end = '')     print(2, end = '')     print(3, end = '')     pri		import random	
for i in range(0,b,3):     print(a[i], end = '*')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) (CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY: for J in range(1,PICK):     print(1, end = ' ')     print() (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA (B) DELHI     DELHIMUMBAI DELHIMUMBAI     CHENNAI     KOLKATAKOLKATA (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATA (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA (E) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA (E) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA (E) PELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA (E) PETRING(S)      TORDERING(S)	for i in range(0,b,3):     print(a[i], end = ***)  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore (*_*).     For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If Li=[i,3,2,4,5,6,7,6,5,4,3], and L2=[i0,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3)     CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']     for I in CITY:         for J in range(1,PICK):		h = random randint(3.8)	
print(a[i], end = '*')  23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('_').  For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3)  CITY= ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for 1 in CITY:  for J in range(1,PICK):  print(1, end = '')  print()  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (E) DELHI  MUMBAIMUMBAI  CHENNAI  CHENNAI  CHENNAI  CO'STRING = "WELCOME NOTE""  For Sin range(0,8):  Print STRING(s)  **GUEZURICO**	print(a[i], end = ***)  Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore (*_'). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If Li=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3)  CITY = ['PDELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY: for J in range(1,PICK):     print(1, end = '')     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAI			
23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore (` '). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to reverse the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for 1 in CITY:  for J in range(1,PICK):     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHII MUMBAI     DELHII MUMBAI     CHENNAI     KOLKATAKOLKATA  (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATA  (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA  (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA  (E) DELHII MUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA  (D) DELHII MUMBAI     CHENNAI     KOLKATAKOLKATAKOLKATA  (E) PICHI STRING(s)      For S in range(0,8):     Print STRING(s)	23. Write a user-defined function named PUZZLE(W,N), which takes two arguments as an English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore (*_). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SL_N'.  24. If Li=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only) (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY=['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for 1 in CITY:		print(a[i], end = '*')	
English word and an integer and returns the string where every Nth alphabet of the word W is replaced with an underscore ('').  For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of ist L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3)  CITY = ['PELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for 1 in CITY:  for J in range(t,PICK):  print(1, end = ' ')  print(0, A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI  DELHIMUMBAI  CHENNAI  KOLKATA  (C) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATA  (E) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  CHENAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI  CHENAI  CHENNAI  CHEN	English word and an integer and returns the string where every Nth apphabet of the word W is replaced with an underscore (* _*).  Wis replaced with an underscore (* _*).  For example: if W contains the word "TELEVISION" and N is 3 then the function should return the string "TE_EV_SL_N".  24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random  PICK=random.randint(0,3)  CITY = ["DELHI", "MUMBAI", "CHENNAI", "KOLKATA"]  for I in CITY:  for J in range(1,PICK):  print(1, end = '')  print(0  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  MUMBAI CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (E) DELHI  MUMBAIMUMBAI  CHENNAI	22	With war defined function named PUZZLE(W.N), which takes two arguments as an	
W is replaced with an underscore (` ' '). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SLN'.  24. If LI=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(I,PICK):  print(I, end = ' ')  print()  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI  DELHIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  STRING = "WELCOME NOTE" "  For Sin range[0,8]:  Print STRING(s)	W is replaced with an underscore (~). For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If LI=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(1,PICK):  print(1, end = '')  print(0, end = '')  print(1, end = '')  print(1, end = '')  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  MUMBAI  CHENNAI  (C) DELHI  MUMBAI  CHENNAI  (D) DELHI  MUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  (D) DELHI  CHENNAI  (D) DELHI	23.	Write a user-defined function named i observe where every Nth alphabet of the word	(2)
For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If LI=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(1, end = ' ')     print(1)  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAI CHENNAI CHENNAI CHENNAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI CHENNAI KOLKATAKOLKATA  (E) DELHI MUMBAIMUMBAI CHENNAI CHE	For example: if W contains the word 'TELEVISION' and N is 3 then the function should return the string 'TE_EV_SI_N'.  24. If LI+[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1. (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1. (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = (PDELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA') for I in CITY:     for J in range(1,PICK):         print(I, end = ' ')         print(I)  (A) DELHIDELHI  MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI CHENNAI (C) DELHI  MUMBAIMUMBAI CHENNAI KOLKATAKOLKATA  (D) DELHI MUMBAIMUMBAI CHENNAI KOLKATAKOLKATA  (D) DELHI MUMBAIMUMBAI CHENNAI KOLKATAKOLKATAKOLKATA  (E) DELHI  MUMBAIMUMBAI CHENNAI CHE		rrr 1 1 1 ith an am donggorg (* ?)	
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24. If LI=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then  (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = ('PELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(1,PICK):  print(1, end = ' ')  print(1)  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAICHENNAI  (C) DELHI  MUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAI  MUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  FOR SIN TANGO(S)  Print STRING(S)	24. If L1=[1,3,2,4,5,6,7,6,5,4,3], and L2=[10,20,30,40,50], then  (Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of L2 at the end of L1.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(1,PICK):  print(1, end = '')  print()  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI DELHIMUMBAI  CHENNAI  (C) DELHI  MUMBAI  CHENNAI  (D) DELHI  MUMBAIMUMBAI  CHENNAI  (C) DELHI  MUMBAIMUMBAI  CHENNAI  (C) DELHI  MUMBAIMUMBAI  CHENNAI  (C) DELHI  MUMBAIMUMBAI  CHENNAI  (D) DELHI  MUMBAIMUMBAI  CHENNAI  (E) DELHI  MUMBAIMUMBAI  CHENNAI  (D) DELHI  MUMBAIMUMBAI  CHENNAI  (E) DELHI  MUMBAIMUMBAI  CHENNAI  (D) DELHI  MUMBAIMUMBAI  CHENNAI  (D) TELHI  MUMBAIMUMBAI  CHENNAI  CHENNAI  (D) TELHI  CHENNAI  (D) TEL		return the string 'TE EV SI N'.	
(Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = [*DELHI*, 'MUMBAI*, 'CHENNAI*, 'KOLKATA*]  for 1 in CITY:  for J in range(1,PICK):  print(I, end = ' ')  print(I)  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAICHENNAI  (C) DELHI  MUMBAI  CHENNAI  (C) DELHI  MUMBAI  MUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATA  (D) TELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (E) TELHI  MUMBAIMUMBAI  CHENNAI  CHENAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI  CHENNAI	(Answer using built-in functions only)  (A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random  PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(1,PICK):  print(1, end = ' ' )  print(1, end = " '	24	re tall 12.2.4.5.6.7.6.5.4.3.1 and 1.2=[10.20.30.40.50], then	
(A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = ['PDELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for 1 in CITY:  for J in range(1,PICK):  print(1, end = ' ')  print()  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAICHENNAI  (C) DELHI  MUMBAI  CHENNAI	(A) Write a statement to count the occurrences of 5 in L1.  (B) Write a statement to sort the elements of list L1 in ascendingorder.  OR  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = ['PELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(I,PICK):  print(I, end = ' ')  print(I)  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAICHENNAI  (C) DELHI  MUMBAI  CHENNAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (D) TELHI  MUMBAIMUMBAI  MUMBAIMUMBAI	24.	(Annuar using built-in functions only)	
(B) Write a statement to sort the elements of list L1 in ascending order.  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(I,PICK):         print(I, end = ' ')         print(I)  (A) DELHIDELHI         MUMBAIMUMBAI         CHENNAICHENNAI         KOLKATAKOLKATA  (B) DELHI         DELHI         DELHIMUMBAI DELHIMUMBAI CHENNAI  (C) DELHI         MUMBAIMUMBAI         CHENNAI         KOLKATAKOLKATA  (D) DELHI         MUMBAIMUMBAI         KOLKATAKOLKATA  (D) DELHI         MUMBAIMUMBAI         KOLKATAKOLKATAKOLKATA  (E) DELHI         MUMBAIMUMBAI         CHENNAI         KOLKATAKOLKATAKOLKATA  (D) DELHI         MUMBAIMUMBAI         FOR SI in range[0,8]:         Print STRING(s)	(B) Write a statement to sort the elements of list L1 in ascending order.  (C) Write a statement to insert all the elements of L2 at the end of L1.  (D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code?  import random  PICK=random.randint(0,3)  CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:  for J in range(I,PICK):  print(I, end = ' ')  print(I)  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI  DELHIMUMBAI  CHENNAI  (C) DELHI  MUMBAIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (D) TELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (D) TELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (D) TELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  (A)  (C) TELHI  MUMBAIMUMBAI  CHENNAI  CH		(Answer using built-infunctions only)	
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(D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(I, end = ' ')         print(I)  (A) DELHIDELHI         MUMBAIMUMBAI         CHENNAICHENNAI         KOLKATAKOLKATA  (B) DELHI         DELHII	(D) Write a statement to reverse the elements of list L2.  25. What is the possible outcome(s) after executing the following code? import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY: for J in range(1,PICK):     print(1, end = ' ')     print()  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAI CHENNAI KOLKATA  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAI CHENNAI KOLKATA  (D) TELHI MUMBAI CHENNAI KOLKATA  (D) TELHI MUMBAI CHENNAI KOLKATA  (D) TELHI MUMBAI CHENNAI KOLKATAKOLKATA  (D) TELHI MUMBAI CHENNAI KOLKATAKOLKATA  (D) TELHI MUMBAI CHENNAI KOLKATAKOLKATAKOLKATA  (D) TELHI MUMBAI CHENNAI KOLKATAKOLKATAKOLKATA  (E) TELHIC TELLIC T		(C) Write a statement to insert all the elements of L2 at the end of L1.	
What is the possible outcome(s) after executing the following code?  import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(1, end = ' ')     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAI     DELHIMUMBAI     CHENNAI     KOLKATAKOLKATA  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATA  (D) TELHIMUMBAI     KOLKATAKOLKATA  (D) TELHIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE"" For S in range[0,8]:     Print STRING(s)	25. What is the possible outcome(s) after executing the following code?  import random PICK=random.randint(0,3) CITY = ['PELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:     for J in range(I,PICK):         print(I, end = ' ')         print()  (A) DELHIDELHI         MUMBAIMUMBAI         CHENNAI CHENNAI         KOLKATAKOLKATA  (B) DELHI         DELHIMUMBAI         DELHIMUMBAI         CHENNAI         KOLKATAKOLKATA  (C) DELHI         MUMBAI         CHENNAI         KOLKATA  (D) DELHI         MUMBAIMUMBAI         CHENNAI         KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):         STRING = "WELCOME NOTE""         For S in range[0,8]:         Print STRING(s)		(C) Write a statement to insert an the elements of list L2.	
import random PICK=random.randint(0,3) GITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY: for J in range(1,PICK):     print(I, end = ' ')     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAI     DELHIMUMBAI     CHENNAI     KOLKATAKOLKATA  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     CHENNAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]:     Print STRING(s)	import random PICK=random.randint(0,3) CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY: for J in range(1,PICK):     print(1, end = ' ')     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAI     DELHIMUMBAI     CHENNAI     KOLKATAKOLKATA  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  (D) Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]:     Print STRING(s)			1
PICK=random.randint(0,3) CTTY = ['DELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA']  for I in CITY:     for J in range(1,PICK):         print(1, end = ' ')     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI DELHIMUMBAI     DELHIMUMBAICHENNAI  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  (D) TELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:     Print STRING(s)	PICK=random.randint(0,3) CITY = ['PELHI', 'MUMBAI', 'CHENNAI', 'KOLKATA'] for I in CITY:     for J in range(1,PICK):         print(I, end = ")     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAICHENNAI  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):     STRING = "WELCOME NOTE"" For S in range[0,8]:     Print STRING(s)	25.	What is the possible outcome(s) after executing the following code:	
CITY = ['DELHI', 'MUMBAI', 'CHENNAI', 'ROLKATA']  for I in CITY:     for J in range(I,PICK):         print(I, end = "")     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     ROLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAI     DELHIMUMBAI     CHENNAI     KOLKATA  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATA  (D) TELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:     Print STRING(s)	CITY = ['DELHI', 'MUMBAP', 'CHENNAP', 'ROLKATA']  for I in CITY:  for J in range(1,PICK):  print(I, end = " ')  print()  (A) DELHIDELHI  MUMBAIMUMBAI  CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI  DELHIMUMBAI  CHENNAI  KOLKATA  (C) DELHI  MUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATA  (D) TELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA   26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)		import random	
for I in CITY:     for J in range(1,PICK):         print(I, end = ")     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAI     DELHIMUMBAI     CHENNAI     KOLKATA  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):     STRING = ""WELCOME NOTE"" For S in range[0,8]:     Print STRING(s)  27. Print STRING(s)	for I in CITY:     for J in range(1,PICK):         print(I, end = "")         print()  (A) DELHIDELHI         MUMBAIMUMBAI         CHENNAICHENNAI         KOLKATAKOLKATA  (B) DELHI         DELHIMUMBAI         DELHIMUMBAI         DELHIMUMBAI         CHENNAI         KOLKATA  (C) DELHI         MUMBAI         CHENNAI         KOLKATA  (D) DELHI         MUMBAIMUMBAI         KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):         STRING = ""WELCOME NOTE""  For S in range[0,8]:         Print STRING(s)		PICK=random.randint(0,5)	
for J in range(1,PICK):     print(I, end = ' ')     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAICHENNAI  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):     STRING = "WELCOME NOTE""  For S in range[0,8]:     Print STRING(s)	for J in range(1,PICK):     print(I, end = "")     print()  (A) DELHIDELHI     MUMBAIMUMBAI     CHENNAICHENNAI     KOLKATAKOLKATA  (B) DELHI     DELHIMUMBAI     DELHIMUMBAI     DELHIMUMBAI     CHENNAI     KOLKATA  (C) DELHI     MUMBAI     CHENNAI     KOLKATA  (D) DELHI     MUMBAIMUMBAI     KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):     STRING = ""WELCOME NOTE""  For S in range[0,8]:     Print STRING(s)		CITY = [DELHI, MUNDAI, CHERRAI, MOZA	
print(I, end = ") print()  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATA  (D) DELHI MUMBAIMUMBAI FOR S in range[0,8]: Print STRING(s)  (2)  (2)	print(I, end = ") print()  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAI DELHIMUMBAI CHENNAI KOLKATA  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  (2)			
print()  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATA  (D) TELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  26. Print STRING(s)	print()  (A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  (2		print(I end = ' ')	(2)
(A) DELHIDELHI  MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAI OELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  (2)	(A) DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  (2			
MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  (2)	MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  Print STRING(s)  (2)			
CHENNAICHENNAI KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)	CHENNAICHENNAI  KOLKATAKOLKATA  (B) DELHI  DELHIMUMBAI  DELHIMUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)  Print STRING(s)		(A) DELHIDELHI	1
KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)	KOLKATAKOLKATA  (B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  2. (2)			
(B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE" For S in range[0,8]: Print STRING(s)	(B) DELHI DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  26. Print STRING(s)			
DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)	DELHIMUMBAI DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  27. (C) STRING(s)			
DELHIMUMBAICHENNAI  (C) DELHI  MUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA   26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)  Print STRING(s)	DELHIMUMBAICHENNAI  (C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)		(B) DELHI	
(C) DELHI  MUMBAI  CHENNAI  KOLKATA  (D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAKOLKATA   26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)  Print STRING(s)	(C) DELHI MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA   26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  Print STRING(s)			
MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  (2)	MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  26. Print STRING(s)		DELHIMUMBAICHENNAI	
MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  1. (C) STRING(s)	MUMBAI CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  26. Print STRING(s)		(C) DELHI	
CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)	CHENNAI KOLKATA  (D) DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  Print STRING(s)			
(D) DELHI  MUMBAIMUMBAI  KOLKATAKOLKATAK  26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)  Print STRING(s)	(D) DELHI MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  Print STRING(s)			1
MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)	MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  Print STRING(s)		KOLKATA	
MUMBAIMUMBAI KOLKATAKOLKATAK  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)	MUMBAIMUMBAI KOLKATAKOLKATA  26. Rewrite the following code in Python after removing all syntax error(s): STRING = "WELCOME NOTE"" For S in range[0,8]: Print STRING(s)  Print STRING(s)		(D) DELHI	
26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]: Print STRING(s)	26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]: Print STRING(s)  Print STRING(s)		MIMBAIMUMBAI	
26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)	26. Rewrite the following code in Python after removing all syntax error(s):  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)  Print STRING(s)		KOLKATAKOLKATA	
26. Rewrite the following code in Pytholi after removing an syntax errors:  STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)	26. Rewrite the following code in Pytholi after removing an syntax except STRING = "WELCOME NOTE""  For S in range[0,8]:  Print STRING(s)		D : d following and in Dython after removing all syntax error(s):	(2
For S in range[0,8]: Print STRING(s)	For S in range[0,8]: Print STRING(s)	26	Rewrite the following code in Fython after removing an syntax errors.	
Print STRING(s)	Print STRING(s)			1
n: (C) CTDINC)	n: ((C) CTDINC)		Print STRING(s)	
	Con		Print(S+STRING)	

:: 4 ::

27.	(A) Differentiate between an attribute and a tuple with an example.	T	4
	(B) Consider the following table with their fields		
	EMPLOYEE (ECODE, ENAME, ENAME, DESIG, SALARY, DOJ)		
	List the names, salary, PF, DA of all the employees in the FMPI OVEE table		
	HRA is 25% of the salary, DA is 10% of the salary, PF is 5% of the salary.	1	
	The result should be in descending order of salary.		
	(A) What are FOREICN KEYES W		(2)
	(A) What are FOREIGN KEYS? Write its properties.		
	(B) Write an SQL command to display each field of a table called "TRANSPORT"		
28.	with the type, size, and constraints.		
20.	<ul><li>(A) List one advantage and one disadvantage of bus topology.</li><li>(B) What is the use of Router in a networking technology?</li></ul>	1	
	OR		
	(A) Expand the following terms:		(2)
	TCP/IP, VoIP		1
	(B) Write any two advantages of SMS		
Q No.	Section – C ( $3 \times 3 = 9 \text{ Marks}$ )		Marks
29.	(A) Write a Python function that displays all the words containing "was" from a text	-	Marks
	file "english.txt".		
	OR	1	(3)
	(B) Write a Python function that finds and displays all the words which starts and ends	1	(3)
	with 'A' from a text file "novel.txt".		
30.	A) Consider the list war al NUM (C. 1:1		
30.	A) Consider the list named NUMS which contains random integers. Write the		
	following user defined function from the list NUMS and pushes all such		
	numbers which have 5 or more digits into stack BUGNUMS		
	(i) PushBig() It checks every number from the list NUMS and pushes all		
	such numbers which have 5 or more digits into the stack BIGNUMS.		
	(ii) PopBig() It pops the numbers from the stack BIGNUMS, and displays them.		
	The function should also display 'Stack is empty' when no more numbers are		
	left in the stack.		
	(iii) peep(): This function displays the topmost element of the stack without deleting		
	it. If the stack is empty, the function should display 'None'.		
	OR		
	B) You have a stack named NUMSTACK that stores even numbers. The stack is		(3)
	implemented using a list.		
	Write the following user-defined functions in Python to perform the specified		
	operations on the stack NUMSTACK.		
	(i) Push_Num(NUMSTACK, new_num): This function takes the stack		
	NYUMSTACK and a new number as arguments and pushes the new number		
	onto the stack only if it is odd.		
		,	
	(ii) Pop_Num(NUMSTACK): This function pops the topmost number from the sta	ick	
	and returns it. If the stack is already empty, the function should display 'Underflow'.		
			1
	(iii) Peek(NUMSTACK): This function displays the topmost element of the stack		
	without deleting it. If the stack is empty, the function should display 'None'.		
31.	Predict the output of the following code:		
	x = (1, (2, (3, (4,))))		
	print(len(x))		
	print(x[1][0])		
	print(2 in x)		
	y = (1, (2, (3,), 4), 5)		
	print( len(y[1])) print( y[2] + 50 )		
	z = (2, (1, (2, ), 1), 1)		(3)
	$ \begin{array}{c} z - (z, (1, (2, ), 1), 1) \\ print(z[z[z[0]]]) \end{array} $		(3)
	OR		
	line = "LeaveTheWorldBehind"		
	eline = ""		
	for i in line:		
	eline += chr(ord(i)+3)		
	print(eline)		

Q No.				$4 \times 4 = 16 \text{ Marks}$		Marks
32.	Consider the following table FLIGHTS:					4
		START	END	NO FLIGHTS	NO STOPS	
		MUMBAI	DELHI	8	0	
		MUMBAI	INDORE	3	1	
		DELHI	MUMBAI	2	1	
		MUMBAI	CHENNAI	1	0	
		DELHI	RAIPUR	4	1	
		RAIPUR	NAGPUR	3	0	
		MUMBAI	KOCHI	4	1	
	Write SQL statements for the following:  (i) To display the total number of flights.  (ii) To display the number of flights whose FL_NO starts with 'IC'.  (iii) To delete the row whose FL_NO is 'IC333'.  (iv) To change the NO_flights of 'IC301' as 4.  OR  Write the output of the given SQL commands:  (i) Select sysdate() as 'Current Date'.  (ii) Select round(435666,8267,4);  (iii) Select truncate(3415.79,-1);  (iv) Select substr('When are you coming?',-10,4);					

33.	A CS the fo	V file, "xiia.csv", contains the data about students. Each record of thefile contains llowing data:	(4)
		Name – name of the. Student.	7.7
	•	House - ('Chenab', 'Ganges', 'Jhelum').	
		Eng, Phy, Chem, Maths, CS – marks of subjects out of 100 marks each.	
	(i) Dis	the following Python functions to perform the specified operations on this file:  splay_data(): Read all the data from the file and print the name and total marks ained by the 'Chenab' house students only.  eak_list(): Print the name of the student and subject names in which she/he has got	
	ma	rks less than 33.	

# 34. Study the following tables, **DOCTORS** and **SALARY** and write SQL commands for the following:

# Table: DOCTORS

ID NAME DEPT SEX **EXP** 101 JOHN **ENT** M 12 104 **SMITH** ORTHO M 5 107 **GEORGE** CARDIO M 10 114 LARA SKIN F 3 109 K GEORGE **MEDICINE** F 9 105 **JOHNSON** ORTHO M 10 117 LUCY **ENT** F 3 111 **BILL MEDICINE** F 12 130 **MORPHY** ORTHO M 15

## Table: SALARY

ID	BASIC	ALLOWANCE	CONSULTATION
101	12000	1000	300
104	23000	2300	500
107	32000	4000	500
114	12000	5200	100
109	42000	1700	200
105	18900	1690	300
130	21700	2600	300

- (i) Display the names of all the doctors in the MEDICINE department with more than 10 years of experience from the table DOCTORS.
- (ii) Display the average salary of all doctors working in the ENT department using the table DOCTORS.

SALARY = BASIC+ALLOWANCE.

- (iii) Display the minimum ALLOWANCE of female doctors.
- (iv) (a) Display the highest consultation fee among all male doctors.

#### OR

(b) To display the details of ORTHO doctors who have experience more than 12 years

4

35	A table named SCHOOL in the CBSE database has the following structure:				
	FIELD NAME	TYPE	(4)		
	ADMNO	CHAR(6)			
1	NAME	CHAR(20)			
	HOUSE	CHAR(15)			
	FEES	INT			
	PDATE	DATE			
	DATA_ENTRY(): To input de DISPLAY DATA(): The fun				
2.No.	SEC	TION – E (2 X 5 = 10 Marks)	Marks		
36.	Rajan is a manager working in	a recruitment agency. He needs to managethe records of			
50.	various candidates. For this, he	wants the following information of each candidate to be			
	stored:				
	- Candidate_ID - integer				
	- Candidate_Name - string				
	- Designation - string		(2+1+2=5		
	- Experience - float		(2.1.2.0		
	(i) Write a function DATA_binary file 'BSP.DAT'.	bu have been assigned to do the following jobs:  ENTRY() to input a candidate's data and append it in a  EDATA() to update the data of candidates whose			
	experienceis more than 5	years and change their designation to "Manager".			
	display the data of all tho	AY_DATA() to read the data from the binary file and see candidates who are not "DGM".			
37.	Sony corporation has set up its	4 offices in the city of Srinagar with its offices X, Z, Y, U	J.		
	X	Z Y	(5)		
	BLOCKS	DISTANCE			
	X to Z	40 m			
	Z to Y	60 m			
	Y to U	135 m			
	U to X	170 m			
	X to Y	165 m			
	(ii) Suggest the placement (iii) Suggest the placement (a) Switch/Hub (b)	out of connectivity of the offices. of the server in the network with suitable reason. of the following devices in the network with justification: Repeater antage of the topology suggested.	:		



DATE: 09.12.2024

CLASS: XII

Name:

PREBOARD EXAMINATION 2024-'25 SUBJECT - ENGINEERING GRAPHICS

Time: 3 Hrs. Max. Marks: 70

Roll No.: .....

In	SIL	ucu	ons:

- Attempt all the questions. (i)
- Use both sides of the drawing sheet, if necessary. (ii)
- All dimensions are in millimetres. (iii)
- Missing and mismatching dimensions, if any, may be suitably assumed. (iv)
- Follow the SP: 46 2003 revised codes. (with first angle method of projection) (v)
- In no view of question 21, are hidden edges or lines required. (vi)
- In question 23, hidden edges or lines are to be shown in views without section. (vii)

### SECTION - A

Q 1 to Q 8 - Answer the following multiple choice questions. Print the correct choice on your drawing

- Which is the included angle of a regular hexagon? 1.
  - (A)  $30^{\circ}$
- (B)  $60^{\circ}$
- (C) 90°
- (D) 120°
- Name the projection with multiple views. 2.
  - (A) Perspective projection
- (B) Isometric projection
- (C) Orthographic projection
- (D) Oblique projection
- Name the solid with apex. 3.
  - (A) Cone
- (B) Square prism
- (C) Triangular Prism
- (D) Sphere
- Name the type of line which is used for dimensioning. 4.
  - (A) Small dash line
- (B) Chain line

(B) Nut-Bolt

- (C) Wavy line
- (D) Thin continuous line
- What is the thread angle of a metric thread? 5. (D) 100°
  - $(A) 40^{\circ}$
- (B)  $60^{\circ}$
- (C) 80°
- Which one of these is a temporary fastening?
- (D) Pasting
- Which among these is used for power transmission? 7.

(A) Welding

- (B) BSW thread
- (A) Square thread (C) Metric thread internal
- (D) Metric thread external

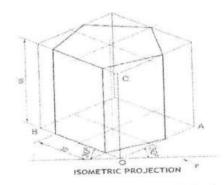
(C) Riveting

- Usually the section lines are inclined with horizontal line at. 8.
  - (A) 45°
- (B)  $35^{\circ}$
- $(C) 25^{\circ}$
- (D) 15°

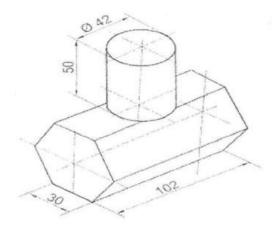
Q 9 to Q 14 - Select the correct option corresponding to the orientation of the given Isometric  $(1 \times 6 = 6)$ Projection:

9.

6.

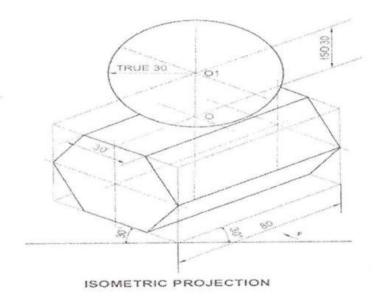


- (A) Axis of the prism is parallel to bot H.P. & V.P.
- (B) Axis of the prism is perpendicular to H.P.
- (C) Hexagonal ends of the prism are perpendicular to V.P.
- (D) Pentagonal ends of the prism are parallel to V.P.



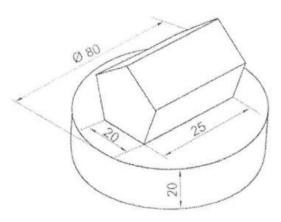
- (A) A vertical cylinder of base diameter 42 mm is placed centrally on a hexagonal prism which is resting on HP with one of its long edges on it.
- (B) A vertical cylinder of base diameter 42 mm is placed centrally on a pentagonal prism which is resting on HP with one of its long edges on it.
- (C) A vertical cylinder of base diameter 42 mm is placed centrally on a pentagonal prism which is resting on HP with one of its rectangular faces on it.
- (D) A vertical cylinder of base diameter 42 mm is placed centrally on a hexagonal prism which is resting on HP with one of its rectangular faces on it.

11.



- (A) The isometric projection of a sphere is a circle whose diameter is equal to the isometric diameter of the sphere.
- (B) The isometric projection of a sphere is a circle whose diameter is equal to the true diameter of the sphere.
- (C) The isometric projection of a sphere is a circle whose diameter is equal to half of the true diameter of the sphere.
- (D) The isometric projection of a sphere is a circle whose diameter is equal to double of the true diameter of the sphere.

12.



\_\_\_\_\_\_

- (A) Axis of both prism and cylinder are perpendicular to HP.
- (B) Axis of both prism and cylinder are perpendicular to VP.
- (C) Axis of prism is Parallel to VP and axis of cylinder is perpendicular to HP.
- (D) Axis of prism is perpendicular to HP and axis of cylinder is perpendicular to VP.

Figure 2 shows the assembly of the parts of a FLANGE PIPE JOINT. Disassemble the parts and then draw the following views of the following components to scale 1:1, keeping them in the same position with respect to H.P. and V.P.

(i) FLANGE B:

(a) Front view, upper half in section.

(b) Right hand side view.

(8+7)

(ii) GASKET: (a) Full sectional front view.

(b) Left hand side view.

(3+3)

(6)

Print the titles of both and the scale used. Draw the projection symbol. Give 6 important dimensions.

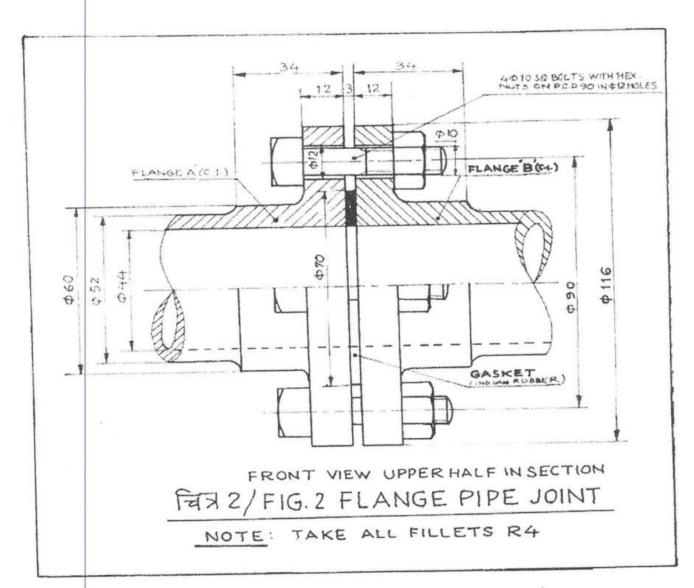
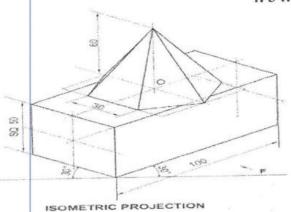


FIGURE - 2

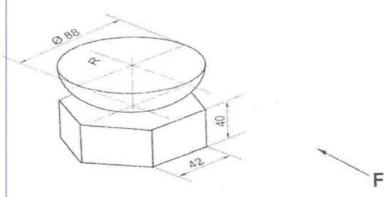
යයය නනන

13.



- (A) A vertical pentagonal pyramid with one of its base edges parallel to VP is placed centrally on a horizontal square prism with its square ends parallel to VP.
- (B) A vertical pentagonal pyramid with one of its base edges perpendicular to VP is placed centrally on a horizontal square prism with its square ends perpendicular to VP.
- (C) A vertical hexagonal pyramid with two of its base edges perpendicular to VP is placed centrally on a horizontal square prism with its square ends perpendicular to VP.
- (D) A vertical hexagonal pyramid with two of its base edges parallel to VP is placed centrally on a horizontal square prism with its square ends perpendicular to VP.

14.



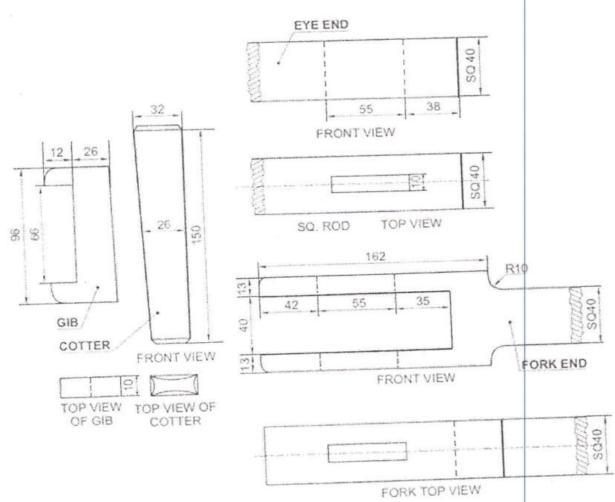
- (A) The common axis is perpendicular to HP and two of the base edges of the prism are perpendicular to VP (B) The common axis is perpendicular to VP and two of the base edges of the prism are perpendicular to VP
- (C) The common axis is perpendicular to HP and two of the base edges of the prism are parallel to VP
- (D) The common axis is perpendicular to VP and two of the base edges of the prism are parallel to VP
- Q15 Two statements are given one labelled assertion ((A) and the other labelled reason (R). Select the correct answer to the following question from the codes ((A), ((B), ((C) and ((D) as given below:
  - (A) Both A and R are true and R is the correct explanation of A.
  - (B) Both A and R are true and R is not the correct explanation of A.
  - (C) A is true but R is false.
  - (D) A is false and R is also false.
- Assertion (A): The hexagonal nut takes preference over the other nuts. 15. Reason (R): The angle through which the spanner will have to be turned to get another hold is only 60 in case of a hexagonal nut but 90° for a square nut.
- Q16 to Q20 Answer Read the following para and answer the following questions.

Two friends who are the students of class XII Engg. Graphics visited a workshop to repair a part of their robotic arm. Mechanic advised them to use nub-bolt combination in place of welding. While purchasing, they observed many nuts and bolts. They sent the following image to their Engineering Graphics teacher. Then the teacher explained everything about nut-bolt and fasteners.  $(1 \times 5 = 5)$ 



- The way to represent external threads of a bolt of diameter 'd' in drawing is 16.
  - (A) Discontinuous '0.8d' circle (C) Discontinuous '1.5d+3' circle
- (B) Discontinuous 'd' circle

The way to represent internal threads of a nut of diameter 'd' in drawing is 17. (B) Discontinuous 'd' circle (A) Discontinuous '0.8d' circle (D) Discontinuous '1.5d' circle (C) Discontinuous '1.5d+3' circle The thickness of a nut of diameter 'd' is 18. (D) 1.5d (C) 1.5d+3(B) d (A) 0.8d The maximum diameter of a washer which is used on a bolt of diameter 'd' is 19. (C)1.5d+3The diameter of a cylindrical rod on which thread profiles are formed is known as 20. (D) Chamfering diameter. (C) Minor diameter (B) Nominal diameter (A) Major diameter SECTION - B 21. (a) Construct an isometric scale. (b) A pentagonal prism of base side 30 mm and height of 70 mm resting on its base on H.P. with one of its base side parallel to and near to V.P. Draw to scale 1:1, the standard profile of the B.S.W. thread profile with the pitch = \$0mm. Give 22. standard dimensions. OR Draw to scale 1:1, the Front View and Top View of a Square nut of diameter 25 mm, keeping the axis perpendicular to H.P. and two opposite parallel faces are parallel to V.P. Give standard Figure-1 shows the detail drawings of different parts of a Gib and Cotter Joint for joining two square 23. rods. Assemble all the parts correctly and draw the following views to scale 1:1 (15)(a) Front view, upper half in section. (06)(b) Side view, viewing from the left hand side. (c) Print title, scale used and draw the projection symbol. Give '6' important dimensions. (06)EYE END



DETAILS OF A GIB AND COTTER JOINT

FIGURE -1



**DELHI PUBLIC SCHOOL, BHILAI** DATE: 12.12.2024 PREBOARD EXAMINATION 2024-'25 Time: 3 Hrs. CLASS: XII SUBJECT - HOME SCIENCE Max. Marks: 70 Name: Roll No. : \_\_ 1. All questions are compulsory. 2. There are total 35 questions. 3. Question paper is divided into three sections - A, B and C. 4. Section A has question no.1 to 18 (Objective type questions) and are of 1 mark each. 5. Section B has question no. 19 to 25 of 2 marks each and question no.26 to 29 of 3 marks each. Section C has question no.30 to 33 of 4 marks each and question no.34 and 35 are of 5 marks each. 6. Internal choices are given in some questions. 7. Support your answers with suitable examples wherever required SECTION A (OBJECTIVE TYPE OUESTIONS) Q.01 Rohan's grandmother is suffering from issues of liver and chewing problems. Which type of diet should be prescribed by the dietician to Rohan's grandmother? (A) Low protein diet and mechanical soft diet. (B) High protein diet and mechanical soft diet. (C) Low fibre diet and liquid diet. (D) High fibre diet and regular diet. Q.02 Red Ribbon Express (RRE) was a campaign launched for generating awareness about which of the following disease? (A) HIV/Aids (B) Polio (C) Tuberculosis (D) Cancer (1) 0.03Which of the following sciences are not involved in the study of Food Science? (A) Chemistry (C) Biotechnology (B) Culinary Arts (D) Microbiology (1) 0.04Community radio is being operated in which of the following locations? (A) Delhi University North (B) Vanasthali Vidyapeeth (C) SEWA Gujarat (D) All of the above (1) Q.05 Match the following: LIST I LIST II 1. Proportion (A) Created in a garment when all the elements of design come together to give a good harmonious effect. 2. Balance (B) Relationship of the parts of the garments to one another. 3. Formal Balance (C) Proper equalling of the distribution of weight from the central point of a dress. 4. Harmony (D) The least expensive and most expected type of design which is found on less expensive garments. Choose the correct option: (A) A-1, B-2, C-3, D-4 (B) A-2, B-3, C-4, D-1 (C) A-3, B-2, C-4, D-1 (D) A-1, B-3, C-2, D-4 (1) Who amongst the following tried to comprehend and explain that young children have different ways of understanding things around them? (A) Jean Piaget (B) Lev Vygotsky (C) Maria Montessori (D) None of these (1)Q.07 Match the following: LIST I LIST II 1. Couture (A) Ready-to-wear clothing. 2. Pret-a-Porter (B) Art of making a dress. 3. Sewing Machine (C) Female dress designer. 4. Couturier (D) Issac Singer Choose the correct option:

	(C) A-3, B-4, C-1,	D-2 (D) A-4, B	-1, C-3, D-2		
Q.08	Ais a sp	pecific group of people who s	hare common character	istics.	
	(A) Population	(B) Demography	(C) Community		ociety
		OR		. ,	
	Anganwadi is the	component of which of the fo	llowing?		
	(A) ICDS	(B) Montessori Schools	(C) Nehru Yuva Ke	endra	(D) NSS

(B) A-2, B-1, C-4, D-3

(A) A-1, B-2, C-3, D-4

(1)

(1)

Q.09	Which of the following is not includ (A) Engineering Department (C) Human Resources Department	(B) Finance at	nd Accounts Department	(1)
Q.10	FSSAI comes under which level of s (A) National Standard (C) Regional Standard		d quality? Standard	(1)
Q.11	Which of the following are not inclu (A) Assessing nutritional status (C) Prescribing over-the-counter med	ded in nutrition		problems
	Given below are two statements la appropriate answer from the optio (A) Both A and R are true and R is the (B) Both A and R are true but R is not (C) A is true but R is false.  (D) A is false but R is true.	ons given below ne correct expla	v: mation of A.	lect the most
Q.12	ASSERTION (A): There is a need for community radio REASON(R): Participating in such	initiative is to	be successful.	
	<ul><li>(A) Both A and R are true and R is the (B) Both A and R are true but R is not (C) A is true but R is false.</li><li>(D) A is false but R is true.</li></ul>	ne correct expla	nation of A.	J. (4)
Q.13	ASSERTION (A): New pathogens of REASON (R): Changes in human so and emergence of pa	usceptibility, in	creased globalisation of food	leads to transfer (1)
	CASE BASED QUESTIONS: Read the passage carefully and an	swer question	no. 14 to18	
	Aman, a degree holder in Entrepa Rajasthan, where in 2006 an initiatic child is born. To keep termites away plants around the trees. This has to higher water levels. Aman decided to marketing of Aloe Vera into juices, found that the villagers were suffe engaged in unscrupulous, exploitation products and also selling unsafe ar plight, instead of a business organization promotion of the consumer interest of	re was started from the trees arned the village o visit the villagels and other gels and other ering exploitation tive trade practical adulterated pation, he decide	in which 111 trees are planted the villagers have planted 2. ge into an oasis, as the planted ge to start a business unit, for products. However, on visiting on at the hands of local maces like hoarding and black products to the villagers. Af d to set up an organization for	ed every time a girl 5 million Aloe Vera ting of trees led to the processing and ag the village Aman erchants who were marketing of food ter looking at their
Q.14	Which of the following responsibilit (A) Responsibility towards regularly provisions made by the governm (B) While making a purchase, she/he (C) She/he must have increasing aw organizations in terms of their a member of such organizations.	updating their nent. e should read a areness about v	knowledge of various laws a Il the information given on the arious national and internation	e label/ brochure. mal consumer f becoming a
0.15	(D) Both (A) and (C).	11 65 :	C 0	(1)
Q.15	Which consumer problem are the vi.  I. Inadequate or Erroneous Inform.  II. Lack of Consumer Information.  III. Substandard/ poor quality good.  IV. Adulteration  Choose the correct option:  (A) I, II and III	nation given by	Manufacturer.	
	(C) II and IV	(D) All of the		(1)
Q.16	Which consumer right is violated in (A) Right to Safety (C) Right to be Heard		seek Redressal	(1)
				Contd 3

Q.18 Assertion (A): Consumers must purchase products with standardization mark to ensure the quality/purity of the product.  Reason (R): Standardization is a prime requisite for attaining quality.  (I): Both A and R are true, but R is not the correct explanation of A.  (B): Both A and R are true, but R is not the correct explanation of A.  (C): A is true, but R is false.  (D): A is false, but R is true.  SECTION B (SHORT ANSWER QUESTIONS)  Q.19 What is meant by ironing? Which are the most inexpensive and basic irons used in day-to-day life?  Q.20 Vidya purchased a new electric kettle. She received an electric shock due to its manufacturing defect. Which consumer right of Vidya has been infringed in this case?  Q.21 Diseuss how SEWA can make use of Information and Communication Technology in its program.  Q.22 Public health plays an important role in the developing countries as well as the developed countries Diseuss the significance of public health with reference to the given statement.  Q.23 Write any two features of laundry in hotels.  Q.24 Write down the factors responsible for the emergence pathogens.  Q.25 Technology is the science and application of scientific, socio-economic knowledge and legal rules for production. With reference to the given statement explain the concept of food technology.  Q.25 Technology is the science and application of scientific, socio-economic knowledge and legal rules for production. With reference to the given statement explain the concept of food technology.  Q.26 (a) Disduss the main methods of washing in a machine.  Q.27 How can people with figure problems emphasise or camouflage their figure? Explain with an example.  Q.28 Discuss the following problems faced by consumers worldwide.  (a) Adulteration (b) High prices (c) Lack of consumer information  (3) Trisha is learning about the development of Food processing and technology. She ponders over the following question.  (a) What was the use of Food technology during the earlier periods?  (b) Biovacia because the food techn			
Based on the given statement, choose who is responsible for the same? (A) Voluntary consumer organizations (B) Government organizations (C) Standardization mark organizations (D) All of the above (C) Standardization mark organizations (D) All of the above (D) All of the above (I) A	Q.17	Publishing periodicals and other publications to give knowledge about consumer problems, l reporting, reliefs available, help consumers in protecting themselves from unfair trade practic	legal ces.
Q.18 Assertion (A): Consumers must purchase products with standardization mark to ensure the quality/purity of the product.  Reason (R): Standardization is a prime requisite for attaining quality.  (I): Both A and R are true, but R is not the correct explanation of A.  (B): Both A and R are true, but R is not the correct explanation of A.  (C): A is true, but R is false.  (D): A is false, but R is true.  SECTION B (SHORT ANSWER QUESTIONS)  Q.19 What is meant by ironing? Which are the most inexpensive and basic irons used in day-to-day life?  Q.20 Vidya purchased a new electric kettle. She received an electric shock due to its manufacturing defect. Which consumer right of Vidya has been infringed in this case?  Q.21 Diseuss how SEWA can make use of Information and Communication Technology in its program.  Q.22 Public health plays an important role in the developing countries as well as the developed countries Diseuss the significance of public health with reference to the given statement.  Q.23 Write any two features of laundry in hotels.  Q.24 Write down the factors responsible for the emergence pathogens.  Q.25 Technology is the science and application of scientific, socio-economic knowledge and legal rules for production. With reference to the given statement explain the concept of food technology.  Q.25 Technology is the science and application of scientific, socio-economic knowledge and legal rules for production. With reference to the given statement explain the concept of food technology.  Q.26 (a) Disduss the main methods of washing in a machine.  Q.27 How can people with figure problems emphasise or camouflage their figure? Explain with an example.  Q.28 Discuss the following problems faced by consumers worldwide.  (a) Adulteration (b) High prices (c) Lack of consumer information  (3) Trisha is learning about the development of Food processing and technology. She ponders over the following question.  (a) What was the use of Food technology during the earlier periods?  (b) Biovacia because the food techn		Based on the given statement, choose who is responsible for the same?  (A) Voluntary consumer organizations  (B) Government organizations	(1)
Reason (R): Standardization is a prime requisite for attaining quality.  Select the correct option.  (A) Both A and R are true and R is the correct explanation of A.  (B) Both A and R are true, but R is not the correct explanation of A.  (C) A is true, but R is false.  (D) A is false, but R is true.  SECTION B (SHORT ANSWER QUESTIONS)  Q.19  What is meant by ironing? Which are the most inexpensive and basic irons used in day-to-day life? (C) didy a purchased a new electric kettle. She received an electric shock due to its manufacturing defect. Which consumer right of Vidya has been infringed in this case?  Q.21  Discuss how SEWA can make use of Information and Communication Technology in its program. (2)  Give reasons as to why children are a vulnerable section of society.  Q.22  Public health plays an important role in the developing countries as well as the developed countries Discuss the significance of public health with reference to the given statement. (2)  Q.23  Write any two features of laundry in hotels. (2)  Q.24  Write down the factors responsible for the emergence pathogens. (2)  Z.25  Technology is the science and application of scientific, socio-economic knowledge and legal rules for production. With reference to the given statement explain the concept of food technology. (2)  26. (a) Discuss any four skills or attributes required by an entrepreneur.  (b) Describe any two benefits of Ergonomics. (2)  OR  Discuss the main methods of washing in a machine.  Q.27  How can people with figure problems emphasise or camouflage their figure? Explain with an example. (3)  Q.29 (a) Write a short note on pasteurization. (b) High prices (c) Lack of consumer information (3)  Q.29 (a) Write a short note on pasteurization. (b) High prices (c) Lack of consumer information (4)  Q.30  Trisha is learning about the development of Food processing and technology. She ponders over the following question. (a) What was the use of Food technology during the earlier periods? (b) How did seasonal food gain popularity through	Q.18	Assertion (A): Consumers must purchase products with standardization mark to ensure the	(-)
(C) A is true, but R is false.  (C) A is true, but R is false.  (D) A is false, but R is false.  (D) A is false, but R is true.  SECTION B (SHORT ANSWER QUESTIONS)  Q.19 What is meant by ironing? Which are the most inexpensive and basic irons used in day-to-day life? (Q.20 Vidya purchased a new electric kettle. She received an electric shock due to its manufacturing defect. Which consumer right of Vidya has been infringed in this case?  Q.21 Discuss how SEWA can make use of Information and Communication Technology in its program. (2 Or Give reasons as to why children are a vulnerable section of society.  Q.22 Public health plays an important role in the developing countries as well as the developed countries Discuss the significance of public health with reference to the given statement. (2 Q.23 Write any two features of laundry in hotels. (2 Write down the factors responsible for the emergence pathogens. (2 Q.24 Write down the factors responsible for the emergence pathogens. (2 Q.25 Technology is the science and application of scientific, socio-economic knowledge and legal rules for production. With reference to the given statement explain the concept of food technology. (2 (2 M) Discuss any four skills or attributes required by an entrepreneur. (2 + 1=3 Or Discuss the main methods of washing in a machine.  Q.27 How can people with figure problems emphasise or camouflage their figure? Explain with an example.  Q.28 Discuss the following problems faced by consumers worldwide.  (a) Adulteration (b) High prices (c) Lack of consumer information (3 Q.29 (a) Write a short note on pasteurization.  (b) Describe the experiment of spoilage done by Pasteur in 1864. (3 Q.30 Trisha is learning about the development of Food processing and technology. (b) Elow did seasonal food gain popularity through Food processing and technology? (c) Importance of Food technology during the earlier periods? (b) Elow did seasonal food gain popularity through Food processing and technology? (c) Importance of Food technology in day-to-day li		Reason (R): Standardization is a prime requisite for attaining quality.  Select the correct option.	(1)
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(5)			(3)



Name	Roll No.

DATE: 04.12.2024

CLASS: XII

PREBOARD EXAMINATION 2024-25

SUBJECT - ACCOUNTANCY (055)

Time: 3 HRS. Max. Marks: 80

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- 1. This question paper contains 34 questions. All questions are compulsory.
- 2. This question paper is divided into two parts, Parts A and B.
- 3. Questions 1 to 16 and 27 to 30 carry 1 mark each.
- 4. Questions 17 to 20, 31 and 32 carries 3 marks each.
- 5. Questions 21, 22 and 33 carries 4 marks each.
- 6. Questions 23 to 26 and 34 carry 6 marks each.
- 7. There is no overall choice. However, an internal choice has been provided in 7 questions of one mark, 2 questions of three marks, 1 question of four marks and 2 questions of six marks.

#### Part - A

#### (Accounting for Partnership Firms and Companies)

K and L are partners in a firm sharing profits and losses in the ratio of 4:1. They admitted R as a new
partner. K sacrificed 1/4th of his share and L sacrificed 1/5th share of his share in favour of R. R's share in
the profits of the reconstituted firm will be:

- (A) 2/5
- (B) 6/25
- (C) 9/30
- (D) 1/9
- (1)
- 2. (i) R, M and T were partners in a firm sharing profits and losses in the ratio of 1:3:2. T died on 31<sup>st</sup> July 2023. According to the Partnership Deed, his share of profit from the closure of last accounting year till the date of her death was to be calculated on the basis of aggregate profits of two completed years before his death. Profits of the firm for the years ending 31<sup>st</sup> March 2022 and 31<sup>st</sup> March 2023 amounted to ₹ 46,000 and ₹ 44,000 respectively. The firm closes its books on 31<sup>st</sup> March every year. T's share of profit till the date of his death will be:
  - (A) ₹20,000
- (B) ₹5,000
- (C) ₹ 10,000
- (D) ₹45,000
- (1)

(OR)

- (ii) A and B were partners sharing profits and losses in the ratio of 2:1. Their capital accounts as on 31<sup>st</sup> March 2024 had a credit balance of ₹ 1,09,000 and ₹ 66,000 respectively. They admitted C as a new partner on 1<sup>st</sup> April 2024 for 1/5<sup>th</sup> share in profits. C brought ₹ 25,000 as his share of goodwill premium and agreed to contribute capital proportionate to the capital of the new firm. The amount of capital brought by C is:
  - (A) ₹40,000
- (B) ₹32,000
- (C) ₹50,000
- (D) ₹ 12,50,000
- (1)
- 3. W, V and U were partners in a firm sharing profits in the ratio of 1:2:2. With effect from 1<sup>st</sup> April 2024, they decided to share future profits in the ratio of 7:5:3. Their Balance Sheet as at that date showed a balance of ₹22,500 in Deferred Revenue Expenditure Account. The amount to be debited respectively to the capital accounts of W, V and U for writing off Deferred Revenue Expenditure is:
  - (A) ₹7,500; ₹7,500; and ₹7,500
- (B) ₹4,500; ₹9,000; and ₹9,000
- (C) ₹ 10,500; ₹ 7,500; and ₹ 4,500
- (D) ₹11,250; Nil; and ₹11,250
- (1)

- 4. Read the following statements carefully:
  - Sweat Equity Shares can be issued by a company to its directors and employees in lieu of their knowhow, intellectual property rights.
  - (II) Sweat Equity Shares can be issued only at a discount for cash.
  - (III) Sweat Equity Shares can be issued to directors who are not employees of the company.

Which of the following is correct in context with above statements?

(A) Only (I) is correct

(B) Both (I) and (III) are correct

(C) All are correct

(D) Only (II) is correct

- (1)
- Pranshu Ltd. forfeited 2,000 shares of Mr. Narayan on which ₹ 80 each called-up and ₹ 50 each were paid and reissued to Sinha for ₹ 70 each as ₹ 90 paid-up. Gain on reissue of these shares is:
- (A) ₹ 60,000
- (B) ₹ 1,00,000
- (C) ₹40,000
- (D) ₹20,000
- (1)

- 6. Which of the following items will affect the fixed capital balance of partners?
  - (A) Profit or Loss for the Year
- (B) Cash withdrawn for domestic expenses
- (C) Additional Capital Introduced
- (D) Interest on Capital

- (1)
- 7. Raka and \$aka are partners in the ratio of 3:2. Their fixed capitals were ₹ 3,00,000 and ₹ 4,00,000 respectively. After the close of the accounts for the year it was observed that the interest on capital was provided @ 10% p.a. instead of the agreed rate of 5% p.a. While passing the adjustment entry, which of the following is correct?
  - (A) Raka's Current Account will be debited by ₹ 15,000.
  - (B) Raka's Current Account will be credited by ₹ 6,000.
  - (C) Raka's Current Account will be credited by ₹ 35,000.
  - (D) Raka's Current Account will be debited by ₹ 20,000.

(1)

8.	On dissolution of a partnership firm, f furniture was taken over by a partne value. The amount debited to Bank A	r at ₹ 65,000	earing in the Balanc and balance 50% v	e Sheet was vas sold at 2	₹ 2,00,000. 0% less tha	50% of the n the book	
9.	(A) $\stackrel{?}{\sim}$ 1,45,000 (B) $\stackrel{?}{\sim}$ 80,0 (i) At the time of firm's dissolution	00 n, if no lial	(C) ₹65,000 bility is expected t	o arise on	₹1,85,000 account of	Workmen	(1)
	(A) Debit side of Realisation According Credit Side of Realisation Acc	ount ount	(B) Debit side (D) Credit side (OR)	e of Partners	' Capital Ac	counts	(1)
	(ii) On firm's dissolution, a debtor when full settlement. In such a case,	nose debt of	₹ 10,000 was writte	en off in the	books, paid	l ₹ 8,000 in	
10.	<ul><li>(A) Realisation Account, ₹ 8,000</li><li>(C) Debtors' Account, ₹ 10,000</li><li>Ganga Ltd. took up a loan from Punja</li></ul>		(B) Realisation (D) Debtors' Bank on security of I	Account, ₹8	,000	sued its 9%	(1)
	Debentures as collateral security. The (A) will be entitled to interest on su (B) will be entitled to interest on su (C) will not be entitled to interest o	bank to whi ch debentur ch debentur	ich these debenture es from the date of es from next accour	s are issued_ issue			
11.	<ul> <li>(D) will not be entitled to interest o</li> <li>(i) If 10,000 shares of ₹ 10 each were only 7,000 of these shares were reamount that company must collection.</li> </ul>	n such deber e forfeited for eissued at ₹1 ct at the time	ntures or non-payment of fi 11 per share as fully e of reissue of the re	paid-up, ther emaining 3,0	n what is the 00 shares?	e minimum	(1)
	(A) ₹ 9,000 (B) ₹	21,000	(C) ₹16,000	1	(D) ₹30,00	00	(1)
	(ii) A company forfeited 3,000 shares has been paid. Out of these, few stransferred to Capital Reserve. Ho	of ₹ 10 eac hares were r	reissued at a discour				
12.	(A) 3,000 Shares (B) 1	,000 Shares ,00,000 and	(C) 2,000 Sha outside liabilities a	re ₹ 4,00,00			(1)
13.	(A) ₹1,00,000 (B) ₹50,0 (i) A and B are partners sharing pro ₹3,00,000; Furniture ₹1,00,000	00 ofits in the i	(C) ₹ 10,00,000 ratio of 3:2. Their B	(D) alance Shee	₹ 20,000 t shows Ma		(1)
	new ratio is agreed at 5:3:2. Mach debts @ 5%. A's share in loss on i	ninery is reva	alued at ₹ 2,40,000 a amount to ₹ 30,000. (C) ₹ 80,000	nd a provisio Revised valu	on is made f	or doubtful ure will be:	(1)
	(ii) X, Y and Z are sharing profits in th						
	for 1/5 <sup>th</sup> share in the profits. An e	Amount		ssets	2024 was as	Amount	
	Lidomoio	₹	-			₹	
	Creditors	2,00,000	Plant and Machine (-) Provision for De	SUATURE CONTRACTOR OF THE PARTY	2,00,000 (10,000)	1,90,000	
	Additional Information: Plant and M Which journal entry reflects the corre				ion?		
	(A) Revaluation A/c To Provision for Depreciation	on on Plant a	and Machinery A/c	Dr.	19,000	19,000	
	(B) Plant and Machinery A/c To Revaluation A/c			Dr.	19,000	19,000	
	(C) Revaluation A/c To Plant and Machinery A/c			Dr.	19,000	19,000	
	(D) Provision for Depreciation on To Revaluation A/c	Plant and M	achinery A/c	Dr.	19,000	19,000	(1)

- 14. (i) At the time of forfeiture of shares, Share Capital Account is debited with:
  - (A) Uncalled amount on shares

(B) Paid up amount on shares

(C) Unpaid amount on shares

(D) Called up amount on shares

(1)

- (ii) Debentures which are transferable by mere delivery are:
  - (A) First Debentures

(B) Second Debentures

(C) Registered Debentures

(D) Bearer Debentures

(1)

15. There are two statements Assertion (A) and Reason (R):

Assertion (A): Under the Fluctuating Capital Method, the balance in the capital account fluctuates from time to time.

Reason (R): Under the Fluctuating Capital Method, all the adjustments such as share of profit and loss, interest on capital, partners' salary, interest on drawings etc. are recorded directly in the capital accounts of the partners.

Choose the correct option from the following:

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (C) Assertion (A) is correct but Reason (R) is incorrect.

(D) Assertion (A) is incorrect but Reason (R) is correct.

(1)

16. Arti, Jyoti and Shivangi are partners sharing profits in the ratio of 3:3:2. As per the partnership agreement, Shivangi is to get a minimum amount of ₹80,000 as her share of profits every year and any deficiency on this account is to be personally borne by Arti. The net profit for the year ended 31st March 2024 amounted to ₹ 3,12,000. The amount of deficiency to be borne by Arti is:

(A) ₹ 1,000

- (B) ₹4,000
- (C) ₹8,000

(D) ₹2,000

(1)

(3)

17. A, B and C were partners in a firm sharing profits and losses in the ratio of 5:3:2. Goodwill appeared in their books at a value of ₹ 60,000 and General Reserve at ₹ 20,000. B decided to retire from the firm. On the date of retirement, goodwill of the firm was valued at ₹ 2,40,000. The new profit-sharing ratio decided among A and C was 2:3. Pass necessary journal entries for the above on B's retirement.

Varun Ltd. forfeited 1,200 shares of ₹ 50 each issued at par for non-payment of final call of ₹ 10 per share. Out of these, 900 shares were reissued at ₹ 45 per share fully paid-up. Pass necessary Journal Entries for (3)

forfeiture and reissue of shares.

(OR) Kinetic Ltd. issued 15,000; 12% Debentures of ₹ 100 each on 1st June 2023 payable at 10% premium after four years. The issue was fully subscribed. According to the terms of issue, interest on debentures is payable half-yearly on 30<sup>th</sup> September and 31<sup>st</sup> March every year. Pass necessary Journal Entries related to the debenture interest for the half year ending on 31st March 2024 and transfer of interest on debentures for the year.

(3)

(3)

(3)

- 19. Raj, Sandeep and Lucky were partners in firm sharing profits and losses in the ratio of 3:2:1. The firm was dissolved on 31st March 2024. After transfer of assets (other than cash) and external liabilities to the Realisation Account, the following transactions took place:
  - (i) A debtor, whose debt of ₹ 70,000 was written off as bad, paid ₹ 68,000 in full settlement.
  - (ii) A creditor, to whom ₹ 1,00,000 were due to be paid, accepted furniture at ₹ 56,000 and the balance was paid to him by cheque.

(iii) Lucky had given a loan of ₹ 21,000 to the firm. He accepted ₹ 19,000 in full settlement of his loan.

20. Seeta, Reeta and Geeta are partners in a firm sharing profits and losses in the ratio of 4:3:1. As per the terms of Partnership Deed, on the death of any partner, her share of goodwill was to be valued at 50% of net profits credited to that Partner's Capital Account during the last three completed years before her death. Seeta died on 28th February, 2024. The profits for the last five years were: 2019 ₹ 60,000; 2020 ₹ 97,000, 2021 ₹ 1,05,000; 2022 ₹ 30,000 and 2023 ₹ 84,000. On the date of Seeta's death, Building was found undervalued by ₹ 80,000, which was to be considered. Calculate the amount of Seeta's share of Goodwill in the firm and record the adjustment Journal Entries of revaluation of Building. The new profitsharing ratio between Reeta and Geeta will be equal.

Amit and Ashish are partners sharing profits and losses equally. They decided to admit Vinay as partner for an equal share in the profits. Vinay agreed to bring ₹ 2,50,000 as his share of capital and required amount of goodwill in cash. For this purpose, the goodwill of the firm was to be valued on the basis of 2½ years' purchases of last five years' average profits. The profits and losses for last five years were:

₹ 1,20,000 (including an abnormal gain of ₹ 40,000) 1st Year:

2<sup>nd</sup> Year: ₹ 2,80,000 (excluding ₹ 80,000 as insurance premium)

₹ 80,000 (after charging an abnormal loss of ₹ 40,000) 3rd Year:

4th Year: ₹ 1,20,000 5th Year: ₹ 40,000 (Loss)

(3)

Calculate the amount of goodwill to be brought in by Vinay.

- 21. A, B and C are partners sharing profits in the ratio of 2:2:1. Firm closes its accounts on 31<sup>st</sup> March every year. B died on 30<sup>th</sup> September, 2023. There was a balance of ₹ 96,000 in B's Capital Account in the beginning of the year. In the event of death of any partner, the partnership deed provides for the following:
  - (a) Interest on capital will be calculated at the rate of 12% p.a.
  - (b) The executor of deceased partner shall be paid ₹ 15,000 for his share of goodwill.
  - (c) His share of Reserve Fund which is ₹ 10,000, shall be paid to his executor.
  - (d) His share of profit till the date of death will be calculated on the basis of sales. It is also specified that the sales during the year 2022-23 were ₹ 8,00,000. The sales from 1<sup>st</sup> April, 2023 to 30<sup>th</sup> September 2023 were ₹ 1,50,000. The profit of the firm for the year ending 31<sup>st</sup> March 2023 was ₹ 1,00,000.

Prepare B's Capital Account to be presented to his executor.

22. On 1st April 2023, Atharva Ltd. was formed with an authorised capital of ₹ 90,00,000 divided into 90,000 Equity Shares of ₹ 100 each. The company invited applications for 80,000 Equity Shares. The amount was payable on application ₹ 30 per share; on allotment ₹ 40 per share; and on first and final call ₹ 30 per share. Applications for 1,00,000 shares were received. Applications for 20,000 shares were rejected and the application money was refunded. All calls were made. A shareholder holding 600 shares did not pay the first and final call.

Show 'Share Capital' in the Balance Sheet of the company as per Schedule III, Part I of the Companies Act 2013 as at 31st March 2024.

- 23. Arun, Varun and Tarun were partners of a Consultancy firm sharing profits in the ratio of 2:2:1. They had capitals of ₹ 3,00,000 (Cr.), ₹ 2,00,000 (Cr.) and ₹ 40,000 (Cr.) respectively as on 1<sup>st</sup> April 2023. Their Partnership Deed provided the following:
  - (a) A monthly salary of ₹ 15,000 each is payable to Arun and Varun.
  - (b) Tarun was guaranteed a profit of ₹ 5,00,000 and Arun guaranteed that he will earn an annual fee of ₹ 2,00,000. Any deficiency arising because of guarantee to Tarun will be borne by Arun and Varun in the ratio of 3:2.

During the year ended 31<sup>st</sup> March 2024, Arun earned fee of ₹ 1,75,000 and the profits of the firm amounted to ₹ 15,00,000.

Showing your workings clearly, prepare Profit and Loss Appropriation Account and the Capital Accounts of partners.

24. (i) Anjan Ltd. invited applications for issuing 20,000 shares of ₹ 100 each at a premium of ₹ 10 per share. The amount was payable on application ₹ 40 (including premium); on allotment ₹ 30 and the balance on first and final call. Applications for 30,000 shares were received. Applications for 4,000 shares were rejected and pro-rata allotment was made to the remaining applicants. Over payments on applications were adjusted towards sum due on allotment. Vicky, who was allotted 200 shares, failed to pay the allotment and first and final call money. His shares were forfeited. The forfeited shares were reissued at ₹ 90 per share as fully paid-up.

Pass the necessary journal entries in the books of Anjan Ltd.

(OR)

(ii) Arjun Ltd. invited applications for issuing 6,00,000 equity shares of ₹ 10 each at a premium of ₹ 3 per share. The amount was payable as follows: On Application and Allotment - ₹ 3 per share; On First Call - ₹ 4 per share; On Second and Final Call — Balance (including premium). The issue was oversubscribed by 1,50,000 shares. Applications for 50,000 shares were rejected and the application money was refunded. Shares were allotted to the remaining applicants as follows:

Category I: Applicants for 4,00,000 shares were allotted 3,00,000 shares on pro-rata basis.

Category II: The remaining applicants were allotted the remaining shares.

Excess application money received with applications was adjusted towards sums due on first call. Rakesh to whom 6,000 shares were allotted (out of Category I) failed to pay the first call money. His shares were forfeited. The forfeited shares were re-issued at ₹ 13 per share fully paid up after the second call.

Pass necessary journal entries for the above transactions in the books of Arjun Ltd.

25. (i) Anthony Ltd. purchased assets of ₹ 5,00,000 and took over liabilities of ₹ 1,00,000 of Amar Ltd. for a purchase consideration of ₹ 4,50,000. Anthony Ltd. paid one-third of the amount by cheque and balance was settled by issuing 11% Debentures of ₹ 100 each at a premium of 20%. Pass necessary Journal Entries in the books of Anthony Ltd. for the above transactions.

(ii) Phoenix Ltd. need additional funds of ₹ 55,00,000 for which they decided to issued debentures in such a way that they got required funds after issuing debentures of the same class as earlier, at 10% premium. These debentures were to be redeemed at 20% premium after four years. These debentures were issued on 1st October 2023. You are required to pass entries for issue of Debentures and prepare Loss on Issue of Debentures Account assuming that there was existing balance of Securities Premium Account of ₹ 2,80,000.

Page/5...

(4)

(4)

(6)

(6)

(6)

26. (i) Ajay and Baldev are partners sharing profits in the ratio of 3:1. Their Balance Sheet as on 31st March 2024 is as follows:

Liabilities		Amount	Assets	Amount
Creditors Reserve Capital Accounts: Ajay Baldev	60,000 32,000	₹ 75,000 8,000 92,000 1,75,000	Cash at Bank Debtors Stock Investment Machinery	15,000 32,000 42,000 36,000 50,000

They agree to take Chetan into partnership on 1st April 2024 on the following terms:

- (a) That Chetan pays ₹ 20,000 as his capital for 1/5<sup>th</sup> share in the future profits.
- (b) That goodwill of the firm is valued at ₹ 40,000.
- (c) That stock will be reduced by 10%.
- (d) 5% provision for doubtful debts will be created on debtors.
- (e) Machinery is found undervalued by ₹ 10,000.
- (f) Capital accounts of the partners will be readjusted on the basis of their profit-sharing ratio and any excess or deficiency shall be adjusted through cash/bank.

Prepare Revaluation Account and Partners' Capital Accounts on C's admission.

(ii) Sachin and Rahul were partners in a firm sharing profits and losses in the ratio of 4:1. On 31st March 2024, their Balance Sheet was as follows:

2024, their Balance Sheet was as follows:	Amount	Assets	Amount
Sundry Creditors Bank Overdraft Sachin's Brother's Loan Rahul's Loan Investment Fluctuation Reserve Capital Accounts: Sachin 5,00,000 Rahul 4,00,000	₹ 80,000 60,000 80,000 30,000 50,000 9,00,000	Cash at Bank Debtors 1,70,000 Less: B/D Provision (20,000) Stock Investments Building Goodwill Profit and Loss A/c	

The firm was dissolved on 31st March 2024 on the following terms:

- (a) \$achin agreed to pay off his brother's loan.
- (b) Debtors of ₹50,000 proved bad.
- (c) Other assets realised: Investments 20% less; and goodwill at 60%.
- (d) One of the creditors for ₹ 50,000 was paid only ₹ 30,000.
- (e) Building was auctioned for ₹ 3,00,000 and the auctioneer's commission amounted to ₹ 10,000.
- Rahul took over part of stock at ₹ 40,000 (being 20% less than book value). Balance of stock realised 50%.
- (g) Expenses of realisation amounted to ₹ 20,000.

Prepare Realisation Account on dissolution of the firm.

Part - B (Analysis of Financial Statements)

- 27. (i) Which of the following is not a limitation of 'Analysis of Financial Statements?
  - (A) It is just a study of the reports of the company
  - (B) It does not consider price level changes.
  - (C) It ascertains the relative importance of different components of the financial position of the
  - (D) It may be misleading without the knowledge of the changes in accounting procedures followed by a firm.

(OR)

- (ii) If the Operating Ratio of Parthivi Ltd. is 30%, its Operating Profit Ratio will be:
  - (A) 100%
- (B) 30%
- (C) 130%
- (D) 70%

(1)

(1)

(6)

(6)

28.	<ul> <li>(i) Which of the following transactions will result in cash outflow</li> <li>(A) Payment to creditors</li> </ul>	v from operating a	activities?	
	(B) Proceeds from sale of investments			
	(C) Dividend received by a non-finance company			
	(D) Depreciation charged on furniture			72772
	(OR)			(1)
	(ii) Sale of patents of ₹ 50,00,000 will result in:			
	(A) Cash inflow of ₹ 50,00,000 from financing activities			
	(B) Cash outflow of ₹ 50,00,000 from financing activities			
	(C) Cash outflow of ₹ 50,00,000 from investing activities			
20	<ul><li>(D) Cash inflow of ₹ 50,00,000 from investing activities</li></ul>			(1)
29.	B received to long-term fully of Capi	tal of an enterpris	se.	
	Statement II: Separate disclosure of cash flows arising from financial	ing activities is im	nortant hecause they	
	represent the extent to which expenditures have been made for income and cash flows.	resources intende	ed to generate future	
	(A) Both the statements are correct.			
	(B) Statement I is correct and statement II is incorrect.			
	(C) Statement II is correct and statement I is incorrect.			
	(D) Both the statements are incorrect.			141
30.		are ₹ 3.00.000 ·	Non-Current Liability	(1)
	₹ 4,00,000 and ratio between Non-Current Assets and Shareholde	rs' Funds is 2:1 th	en Current Ratio will	
	be:		icii carrent natio wiii	
	(A) 3:1 (B) 5:1 (C) 2:1	(D)	1:1	(1)
31.	Under which major head and sub-head will the following items b	e presented in th	e Balance Sheet of a	.1-/
	company as per Schedule III, Part I of the Companies Act, 2013?		0-6 PS(50)	
	(i) Bank Overdraft;			
	(ii) Debenture Redemption Reserve; and			
32.	(iii) Capital Advances.	managar variables was		(3)
32.	Prepare a Comparative Statement of Profit and Loss of Anmol information extracted from their Statement of Profit and Loss:	I Ltd. with the h	elp of the following	
	Particulars	31.3.2024	24.2.2022	
	Turticulars	31.3.2024	31.3.2023	
	Revenue from Operations	12,00,000	10,00,000	
	Employee Benefit Expenses (% of Total Revenue)	40%	30%	
	Other Income (% of Revenue from Operations)	25%	25%	
	Income Tax Rate	40%	40%	(3)
33.	(i) From the following information calculate Operating Profit Rati			
	Opening Stock ₹ 10,000; Purchases ₹ 1,20,000; Revenue from	om Operations ₹	4,00,000; Purchases	
	Return ₹ 5,000; Return from Revenue from Operations ₹	15,000; Selling	Expenses ₹ 70,000;	
	Administrative Expenses ₹ 40,000; Closing Stock ₹ 60,000.			(4)
	(OR)	5 II		
	(ii) Debt to Capital Employed ratio is 0.3:1. State whether the decline or will have no change on the Debt to Capital Employed			
	(a) Sale of Equipment costing ₹ 10,00,000 for ₹ 9,00,000.	u natio. Also give i	easons for the same.	
	(b) Purchased Goods on Credit for ₹ 1,00,000 for a credit of 1	5 months, assum	ing operating cycle is	
	of 18 months.	o monens, assam	ing operating cycle is	
	(c) Conversion of Debentures into Equity Shares of ₹ 2,00,000	).		
	<ul><li>(c) Conversion of Debentures into Equity Shares of ₹ 2,00,000</li><li>(d) Tax Refund of ₹ 50,000 during the year.</li></ul>	).		
		).		(4)
34.	<ul><li>(d) Tax Refund of ₹ 50,000 during the year.</li><li>Read the following hypothetical text and answer the given question</li></ul>	ons on the basis o		(4)
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given questic Shantanu Agrawal, an alumnus of your School, initiated his start up	ons on the basis o p StayRealtor, in 2	2021. StayRealtor is a	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given question Shantanu Agrawal, an alumnus of your School, initiated his start up service platform that helps real estate brokers to manage their day.	ons on the basis o p StayRealtor, in 2 y-to-day operation	2021. StayRealtor is a ns in Metro cities. It's	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given questic Shantanu Agrawal, an alumnus of your School, initiated his start up service platform that helps real estate brokers to manage their day basically a Customer Relationship Management with community of	ons on the basis on p StayRealtor, in 2 y-to-day operation of brokers which	2021. StayRealtor is a ns in Metro cities. It's helps them to record	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given question Shantanu Agrawal, an alumnus of your School, initiated his start up service platform that helps real estate brokers to manage their day basically a Customer Relationship Management with community of their data effectively and efficiently. During the year 2023-24, St	ons on the basis on p StayRealtor, in 2 y-to-day operation of brokers which tayRealtor issued	2021. StayRealtor is a ns in Metro cities. It's helps them to record bonus shares in the	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given questic Shantanu Agrawal, an alumnus of your School, initiated his start up service platform that helps real estate brokers to manage their day basically a Customer Relationship Management with community of their data effectively and efficiently. During the year 2023-24, Start ratio of 5:1 by capitalising reserves. The profits of stayRealtor in the	ons on the basis of p StayRealtor, in 2 y-to-day operation of brokers which tayRealtor issued are year 2023-24 af	2021. StayRealtor is a ns in Metro cities. It's helps them to record bonus shares in the ter all appropriations	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given questic Shantanu Agrawal, an alumnus of your School, initiated his start up service platform that helps real estate brokers to manage their day basically a Customer Relationship Management with community of their data effectively and efficiently. During the year 2023-24, Stratio of 5:1 by capitalising reserves. The profits of stayRealtor in the was ₹ 7,50,000. This profit was arrived after taking into considerate	ons on the basis on p StayRealtor, in 2 y-to-day operation of brokers which tayRealtor issued be year 2023-24 aftion the following	2021. StayRealtor is a ns in Metro cities. It's helps them to record bonus shares in the ter all appropriations items:	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given questic Shantanu Agrawal, an alumnus of your School, initiated his start upservice platform that helps real estate brokers to manage their day basically a Customer Relationship Management with community of their data effectively and efficiently. During the year 2023-24, Stratio of 5:1 by capitalising reserves. The profits of stayRealtor in the was ₹ 7,50,000. This profit was arrived after taking into considerate Particulars	ons on the basis of p StayRealtor, in 2 y-to-day operation of brokers which tayRealtor issued be year 2023-24 aftion the following	2021. StayRealtor is a ns in Metro cities. It's helps them to record bonus shares in the ter all appropriations items:	
34.	(d) Tax Refund of ₹ 50,000 during the year.  Read the following hypothetical text and answer the given questic Shantanu Agrawal, an alumnus of your School, initiated his start up service platform that helps real estate brokers to manage their day basically a Customer Relationship Management with community of their data effectively and efficiently. During the year 2023-24, Stratio of 5:1 by capitalising reserves. The profits of stayRealtor in the was ₹ 7,50,000. This profit was arrived after taking into considerate	ons on the basis of p StayRealtor, in 2 y-to-day operation of brokers which tayRealtor issued be year 2023-24 aftion the following Amo	2021. StayRealtor is a ns in Metro cities. It's helps them to record bonus shares in the ter all appropriations items:	

Loss of Office Equipment due to fire

Tax Refund

Interest on Non-Current Investments received

Insurance claim received for Loss of Equipment due to Fire

20,000

10,000

30,000

20,000

### Additional Information:

(a) The following items appeared in the Balance Sheet:

Particulars	31.3.2024 (₹)	31.3.2023 (₹)
Equity Share Capital	12,00,000	10,00,000
Securities Premium Account	3,00,000	5,00,000
General Reserve	1,50,000	1,50,000
Investment in Marketable Securities	1,50,000	1,00,000
Cash in hand	2,00,000	3,00,000
Machinery	3,00,000	2,00,000
10% Non-Current Investments	4,00,000	3,00,000
Bank Overdraft	2,50,000	2,00,000
Goodwill	30,000	80,000
Provision for Tax	80,000	60,000

(a) Goodwill purchased during the year was ₹ 20,000.

(b) Proposed Dividend for the year ended 31st March 2023 was ₹ 1,60,000 and for the year ended 31st March 2024 was ₹ 2,00,000.

You are required to choose the correct alternative for the following questions: Net Profit Before Tax and Extraordinary Items will be: (D) ₹ 11,00,000 (C) ₹ 10,50,000 (B) ₹ 10,60,000 (A) ₹ 10,70,000 Amount of Goodwill amortised will be: (D) ₹11,00,000 (C) ₹ 1,10,000 (B) ₹70,000 (A) ₹50,000 (iii) Operating Profit Before Working Capital Changes will be: (D) ₹ 10,90,000 (C) ₹11,50,000 (B) ₹11,80,000 (A) ₹ 11,20,000 (iv) Outflow from amount paid for Office Equipment is: (C) ₹1,40,000 (D) ₹1,60,000 (B) ₹1,20,000 (A) ₹ 1,00,000 (v) Net Cash Flow from Financing Activities will be:

(A) ₹ 1,50,000 Outflow

(B) ₹ 1,50,000 Inflow

(C) ₹ 2,00,000 Inflow

(D) ₹ 2,00,000 Outflow

(vi) 'Insurance Claim for loss of assets due to fire' will be added in:

(A) Cash Flows from Operating Activities

(B) Cash Flows from Investing Activities

(6)

(C) Cash Flows from Financing Activities

(D) Closing Cash and Cash Equivalents

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DATE: 09.12.2024

CLASS : XII

PREBOARD EXAMINATION 2024-'25 SUBJECT – ECONOMICS (030)

Ti	me	:	3	H	rs.
Max.	Ma	r	ks	:	80

Roll No.:\_\_\_\_

# General instructions:

Name:

(i) This question paper contains two sections:

Section A - Macro Economics

Section B - Indian Economic Development

- (ii) This paper contains 20 Multiple Choice Type Questions of 1 mark each.
- (iii) This paper contains 4 Short Answer Type Questions of 3 marks each to be answered in 60-80 words.
- (iv) This paper contains 6 Short Answer Type Questions of 4 marks each to be answered in 80-100 words.
- (v) This paper contains 4 Long Answer Type Questions of 6 marks each to be answered in 100-150words.

Q.NO.	SECTION A - MACRO ECONOMICS	MARKS
1.	Read the following statements: Assertion (A) and Reason (R). Choose the correct option from those given below:  Assertion (A): At the break-even level of income, the value of average propensity to consume is zero.  Reason (R): Sum of average propensity to consume and average propensity to save is always equal to the one.	1
	Options:  (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).  (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).  (C) Assertion (A) is true, but Reason (R) is false.  (D) Assertion (A) is false, but Reason (R) is true.	
2.	"The Cabinet led by Prime Minister has decided that the Central Government will provide free food grains to 81.35 crore (approx.) beneficiaries under the Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY) for a period of five years with effect from 1st January, 2024."  Based on the aforesaid statement, identify the budgetary objective the government is trying to achieve and choose the correct option:  (A) Reallocation of resources  (B) Economic stability  (C) Redistribution of income  (D) Economic instability	1
3.	Which of the following represents the total income earned by residents of a country, both domestically and abroad, minus income earned by foreigners within the country? (Choose the correct option to fill up the blank)  (A) Gross domestic product  (B) Gross National product  (C) Net domestic product  (D) Net national product	1
4.	Under theexchange rate system, market forces automatically adjust the surplus and deficit in the Balance of Payments account.  (Choose the correct option to fill up the blank)  (A) fixed (B) flexible (C) managed floating (D) dirty floating	1
5.	Arrange the following in the correct sequential order, if the govt. of a nation is trying to curtail the situation of inflationary gap.  i. Decrease in disposable income  ii Increase in taxes  iii. Decrease in aggregate demand  Code –  (A)i,ii,iii (B) iii, ii, i (C) ii, iii, i (D) ii, i.iii	
6.	As per the data presented in the Union Budget 2023-24, the total receipts of the government other than borrowings and the total expenditure are estimated at ₹ 27.2 lakh crore and ₹ 45 lakh crore respectively.  The value of the	1

7.		-
	Read the following statements carefully:  Statement 1: The maximum value of Marginal Propensity to Consume (MPC) can be unity.  Statement 2: As the income of an economy increases, the proportionate increase in the level of consumption is always more than the increase in the level of income.  In light of the given statements, choose the correct option from the following:  (A) Statement 1 is true and Statement 2 is false.  (B) Statement 1 is false and Statement 2 is true.  (C) Both Statements 1 and 2 are true.  (D) Both Statements 1 and 2 are false.	1
8.	In a two-sector economy, Aggregate Demand can be determined by adding  (Choose the correct option to fill up the blank)  (A) Autonomous Consumption, Induced Consumption and Induced Investment.  (B) Autonomous Consumption, Autonomous Investment and Induced Investment.  (C) Autonomous Consumption and Autonomous Investment.  (D) Autonomous Consumption Induced Consumption and Autonomous Investment.	1
9.	Read the following statements carefully:  Statement 1: Foreign grants-in-aid receipts do not lead to any claim on the government.  Statement 2: Disposal of equity by the Public Sector Undertakings in the market may lead to a decrease in the assets of the government.  In light of the given statements, choose the correct option from the following:  (A) Statement 1 is true and Statement 2 is false.  (B) Statement 1 is false and Statement 2 is true.  (C) Both Statements 1 and 2 are true.  (D) Both Statements 1 and 2 are false.	1
10.	Identify the correct reasons that may affect the demand for foreign exchange in an economy.  i. Import of visible iii. Export of invisibles iii. Remittances by residents working abroad  Code –  (A) i & ii (B) ii & iii (C) iii & iv  (D) I & iv	1
11.	On the basis of the given data, estimate the value added by firm A and firm B from the following data-  (i) Change in stock of firm A  (ii) Change in stock of firm B  (iii) Purchase by firm A from firm B  (iv) Purchase by firm B from Firm A  (v) Sales by firm A to households	3
	(vii) Sales by firm A to govt.  (viii) Exports by firm B  (ix) Imports by firm B  (x) Imports by firm B  (x) Imports by firm B	
12.	(vii) Sales by firm A to govt.  (viii) Exports by firm B  (ix) Imports by firm A  (x) Imports by firm B  "Tax revenue collection of the government may be categorized under two heads."  State and explain the two heads of tax revenue.  OR  "Taxation is an effective tool to reduce the inequalities of income". Justify the given	3
12.	(vii) Sales by firm A to govt.  (viii) Exports by firm B  (ix) Imports by firm A  (x) Imports by firm B  "Tax revenue collection of the government may be categorized under two heads."  State and explain the two heads of tax revenue.  OR	3

	"Saving curve can be derived from the consumption curve". Justify the statement,	4
14.	"Saving curve can be derived from the consumption curve". Justify the statement, citing valid steps with the help of a well-labelled diagram.  OR	
	For two hypothetical economies A and B, the value of Marginal Propensity to Consume (MPC) stands at 0.6 and 0.8 respectively. Assuming for both the	
	economies, Autonomous Consumption (c) to be ₹ 40 crore and Investment	
	Expenditure (i) to be ₹ 100 crore. Calculate:	
	(i) Break-even level of income for Economy A	2 2
	(ii) Equilibrium level of income for Economy B	
15.	Read the following text carefully:	
	"Union Finance Minister stated, that investments in infrastructure and productive capacity have a large multiplier impact on growth and employment and in view of this, capital investment outlay is being proposed to increase steeply in the Budget 2023-24 by 1,000 crore."	4
	Based on the given text and common understanding, explain the working process of the increase in investment on the National Income, assuming the Marginal Propensity to Save (MPS) as 20%.	
16.	Read the following text carefully:	
	As societies developed from hunters and gatherers, the material needs of human beings increased – to build a house, wear clothes, make weapons and implements etc. Since these needs could not be produced individually, people had to purchase them from others. These purchases, for example, were paid initially by barter – a leather skin cloak for a spear. As barter had its limits – how many cloaks for a spear – barter got standardized in terms of metals or cowrie shells. Now people knew the value of both the cloak and the spear in terms of bronze or cowrie shells. This was still barter, as both bronze and shells had intrinsic value (shells were desired for their beauty). This system evolved over time into metal currencies. Gold and silver coinage were the offshoot of this system where they had features of barter (both gold and silver had intrinsic value) as well as money (they were standardized	
	representation of value).  In respect of money two facts emerge historically:  • Money has taken the form of either commodities (which have intrinsic value) or in terms of debt instruments.  • Money is usually issued by a sovereign (or a Central Bank as its representative)	
	In modern economies, currency is a form of money that is issued exclusively by some competent authority (Central Bank). It is a liability of the issuing Central Bank and an asset of the holding publi(C)Currency is usually issued in paper (or polymer) form, but the form of currency is not its defining characteristic.	
	In the recent past, the Reserve Bank of India, issued Central Bank Digital Currency (CBDC). A CBDC is the currency issued by a central bank in a digital form. It serves all the purposes of a paper currency in a different form.	
¥7	The introduction of CBDC has the potential to provide significant benefits, such as reduced dependency on cash, lower transaction costs, reduced settlement risk. Introduction of CBDC would possibly lead to a more robust, efficient, trusted, regulated payments option. There are associated risks such as cyber-attacks and technology preparedness, but they need to be carefully evaluated against the potential benefits.	
	On the basis of the given text and common understanding, answer the following questions:  (i) "Over the centuries, money has evolved in various forms."  In the light of the given statement, state and discuss briefly any two forms of money.	3
	(ii) "Various economists have formed a strong opinion that, in the modern times digital currency (like CBDC) is quite essential. However, it comes with its own benefits and potential risks."	
	Do you agree with the given statement, giving valid arguments in support of your answer?	3

17.	which comprises of rent, wages, interest and profits from firms to households".  Defend or refute the statement, giving valid reasons in support of your answer.	3
	(ii) "The public investment on the construction of a multi-lane flyover may reduce traffic congestion."  On the basis of the above statement, discuss its likely impact on Gross Domestic Product (GDP) and welfare in an economy.	3
	(i) "Basis of classification of final goods into consumption and capital goods depend on the economic nature of its use."	
	Defend or refute the statement, with the help of a suitable example.	4
	<ul> <li>(ii) 'Natural calamities in the hill states of India have led to massive destruction of capital assets.'</li> <li>Identify the type of loss (depreciation or capital loss) indicated in the aforesaid statement. Give valid reasons in support of your answer.</li> </ul>	2
	SECTION B – INDIAN ECONOMIC DEVELOPMENT	
		T
18.	capacity implies that the resources extraction is not above the rate of regeneration of the resources where as	1
19.	Read the following statements carefully:  Statement 1: The British policies led to the collapse of India's world-famous handicraft industries.  Statement 2: During the colonial rule in India, the contribution of the industrial sector to Gross Value Added (GVA) increased significantly.  In light of the given statements, choose the correct option from the following:  (A) Statement 1 is true and Statement 2 is false.  (B) Statement 1 is false and Statement 2 is true.  (C) Both Statements 1 and 2 are true.  (D) Both Statements 1 and 2 are false.	1
20.	Read the following statements: Assertion (A) and Reason (R). Choose the correct option from those given below:  Assertion (A): Health expenditure indirectly increases the supply of healthy labour force.  Reason (R): A sick labourer without access to medical facilities is compelled to abstain from work and there is loss of productivity.  Options:  (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).  (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).  (C) Assertion (A) is true, but Reason (R) is false.  (D) Assertion (A) is false, but Reason (R) is true.	
21.	In the post-independence era, the policymakers of India adopted an economic system that fundamentally implies the coexistence ofand  (Choose the correct option to fill up the blank)  (A) small and large-scale industries  (B) small and medium-scale industries  (C) public and private sector  (D) private and foreign sector	1
22.	The institutional structure of rural banking in contemporary India consists of a set of multi-agency institutions, namely,  (i) Regional Rural Banks  (ii) Cooperative Banks	1
	(iii) Land Development Banks  Options:  (A) (i) and (iv)  (C) (i), (ii) and (iii)  (iv) Commercial Banks  (B) (i), (iii) and (iv)  (D) (i), (iii), and (iv)	

23.	Identify, which of the following statement is incorrect about the financial sector reform introduced in 1991? (Choose the correct option) (A) Enabled the establishment of private sector banks, Indian as well as foreign. (B) Foreign investment limit in banks was raised to around 74%. (C) Foreign Institutional Investors were allowed to invest in Indian financial markets. (D) Change in the role of the Reserve Bank of India from facilitator to regulator.	1
24.	China's demographic problem of 4-2-1, resulted in a higher proportion of elderly individuals compared to the younger population. This was primarily due to the implementation of	1
25.	was setup in 1974 by the Indian government to address two major environmental concerns viz. water and air pollution.  (Choose the correct option to fill up the blank)  (A) State Pollution Control Board  (B) Central Pollution Control Board  (C) Brundtland Commission  (D) Montreal Protocol	1
26.	"Assuming in a hypothetical economy, Real Gross Domestic Product recorded a growth rate of 9% during a fiscal year. However, the economy faced a significant challenge in terms of creating an adequate number of employment opportunities."  Identify the situation indicated in the given statement and choose the correct option.  (A) Casualisation of workforce  (B) Informalisation of workforce  (C) Formalisation of workforce  (D) Jobless growth	1
27.	During the period 1951-2016,led to an increase in the milk production in India by about ten times.  (A) Green Revolution (B) Golden Revolution (C) Operation Flood (D) Industrial Revolution	1
28.	Globalization of the economy has helped the farmers marketing their produce and has helped in raising their standard of living. Discuss giving suitable example.  OR  'Globalisation is an essential outcome of liberalisation of an economy'.  Justify the given statement with a valid explanation.	3
29.	"Population explosion and the advent of industrial revolution have resulted in environmental crisis".  Do you agree with the given statement? Give valid reasons in support of your answer.	3
30.	'The reform process implemented in the late 1970s, commonly known as China's open door policy, encompassed a wide range of reforms across sectors like agriculture, investment, industry etc. These reforms played a pivotal role in driving the rapid growth of the Chinese economy over subsequent decades.'  In the light of the given text, discuss any two reforms responsible for the rapid economic growth of China.	4
31.	"The mechanism of agricultural marketing faces several obstacles that hinders its efficient functioning and pose challenges to farmers and agricultural sector as a whole." Discuss those challenges.  OR  'It would be unclear to say that, the growth of human capital lays the ground for economic growth of a nation.'  Do you agree with the given statement? Support your answer with valid illustrations.	4
32.	(I) Define informalization of workforce.     II) Compare and contrast agricultural policies during colonial period and	1
	post-independence period.	3

33. Read the following text carefully:

Employment generation has remained one of the top challenges of Indian policymakers, and over the years, this has only become more complex. India has experienced more or less consistent growth in the structure of the output of the economy, especially after the economic reforms which is measured by gross value added. However, the trend in employment did not reveal a consistent and clear pattern.

These complexities have led to a wide variation in the conclusions drawn by experts and various studies on workforce and employment.

Two major sources of data on the workforce and employment have been the

(i) decennial population census and

(ii) nationwide quinquennial surveys on employment and unemployment by the erstwhile NSSO under the Ministry of Statistics and Programme Implementation (MoSPI), Government of India.

The nationwide Employment and Unemployment (E&U) surveys have been replaced by the Periodic Labour Force Survey (PLFS) conducted by the National Statistical Office (NSO) of MoSPI, which started in the year 2017–18.

According to NSO, the PLFS data measure the dynamics in labour force participation, workers to population ratio and the employment status along with related, important parameters for both rural and urban areas.

Labour force includes persons who were either working (or employed) or those available for work (or unemployed). Some persons in the labour force are abstained from work for various reasons. Deducting that number from the labour force gives the number of actual workers. These workers are further categorised as persons who are engaged in any economic activity as self-employed or regular wage/salaried and casual labour. The difference between the labour force and the workforce gives the number of unemployed persons.

The size of the labour force in the country has increased from 485.3 million in the year 2017–18 to 497.4 million in the year 2018–19. The next year, the labour force increased by 8 per cent and reached 537.9 million. This increase was witnessed across male and female populations as well as rural and urban households.

On the basis of the given text and common understanding, answer the following questions:

(i) State any two major sources of data on the workforce and employment.

(ii) 'The labour force encompasses a broader category than the workforce.'

Defend or refute the statement, giving valid reasons in support of your answer.

(iii) 'Workers can be categorized into different types depending on their status.'
In the light of the given statement, state any one type of employment.

2 3 1

34.	(i) 'Under the Industrial Policy Resolution (IPR) 1956 in India, the system of industrial licensing was introduced to promote regional equality.'	4
	Justify the given statement with valid arguments.  (ii) Discuss briefly the estimates made by notable scholars regarding the national	2
	income and per capita income during the colonial rule in India.	3
34.	(i) 'During the colonial period, India's foreign trade was characterized by a large export surplus, however, this did not result in any flow of gold or silver into India.'  Justify the given statement with valid arguments.	
	(ii) Explain the rationale behind choosing 'Self-reliance' as a central planning objective in India's development strategy.	3



PREBOARD EXAMINATION 2024-'25

CLACC . VII

DATE: 16.12.2024

9.

(A) Sales Promotion

CURIECT - BUSINESS STUDIES

Time: 3 Hrs. Max. Marks: 80

Name :						Roll No. :	
Gen 1. 2. 3.	The questi Answers to Answers to Answers to Attempt al	on paper conta the questions the questions the questions the questions I parts of the q	ins 34 questions. A carrying 3 marks r carrying 4 marks r carrying 6 marks r uestions together	nswers shoul maybe from 5 maybe about maybe about	d be brief and to the 0 to 75 words. 150 words. 200 words.		
1.	Vedant I the form Which fa (A) Cost	td. is a compa of debenture actor determini	any with a decreasi s, and further bor ng the Capital Stru	ing EBIT. The rowing through cture is the C (B) Retu	e company has a significant debentures coul-	gnificant amount of de d exacerbate the situa rimarily concerned abo	ebt in ation.
2.	including themselved discusse (A) Emp	g greater varie yes become a s d in the above bloyee Participa	ety of work conte source of motivation case is ation	ent and provi on to individ (B) Job	ding a meaningful uals. The non finand Enrichment	bs are made interestir work experience, the cial incentive that has	jobs been
3.	Wizard discusse called f recruitm (A) Can	Ltd. is a highly d how they carom IIM Luck tent being descriptions.	ame in contact wit mow from where cribed in the above	. The employ th this organi he was abou lines. (B) Rec	ees of this organizat zation. Veer Singh	ion are very happy and shared that he was di IBA. Identify the sour	rectly
4.	Name ti particul	ar direction.		orm of genera	al statements and cha	annelizes energies tow	
5.	was bei (A) Rig	bought a room	n wants to exercise essal	e his right. Ide (B) Rig	Rs. 3,000, but it caus	Method  sed an electric shock we which he can be protestation	vhile it
6.	revenue	to cover cost c, capital invest nagement want	ts and the risks of	the business of employees	. Now the company and the number of tives –	manner. It is earning e wants to increase the products also. By doin Growth	e sales
7.		of the followir alar Chain	ng principles of ma (B) Stability of		nances the feeling of (C) Equity (D) I	job security? Espirit de Corps	(1)
8.	Accou cars. T of peo	ntants of the firm decide ole. Identify the	irm are required to	o travel to De etrol cars to F	elhi and NCR for wellectric cars in order	to big MNCs. The Ch hich they use the com to improve the quality	ipany
		A CONTRACTOR OF THE PROPERTY O	d Political environ	ment		nnological environmen	t (1

Mr. Rajiv, the sales executive of ABC Ltd. possesses good marketing skills, his techniques include

oral presentation of message, convincing the customer with face to face interaction etc. Name the

(C) Price

element of marketing mix under which the above technique fails -

(B) Product

10.

10.	Assertion (A): Organising le Reason (R): In organizing, s unification of	imilar jobs are group	oed under one dep	artment which leads to	(1)
	<ul><li>(A) Both the Assertion (A) ar Assertion (A).</li><li>(B) Both Assertion (A) and R</li></ul>				of
	Assertion (A).  (C) Assertion (A) is true but I  (D) Assertion (A) is false but	Reason (R) is false.	it Reason (R) is in	ot the correct explanation (	01
11.	Radha started a home cooked to help her. They relied on fr process of ensuring that active reasonable food and earning towards which she would str important characteristic of the	iends and family for vities are performed profit, she decided to rive to work. A fund	orders and then of as per her plan of keep both qualitation of management	on word of mouth. As a ste f supplying healthy, good ative and quantitative bend	p in the quality, chmarks
	<ul><li>(A) It is the first function of r</li><li>(B) It is the last function of r</li><li>(C) It is both forward looking</li><li>(D) It is required only in busi</li></ul>	nanagement. g and backward looki	ng.		(1)
12.	PK Enterprise Ltd. has sold a Pvt. Ltd. The bank in turn wi Identify the method of floatat	an entire lot of 5,00,0	general public fo	r subscription @ Rs. 11 pe	us Bank
	<ul><li>(A) Private Placement</li><li>(C) Rights Issue</li></ul>	(B) Offer through P (D) Offer for Sale	rospectus		(1)
13.	In a factory, product is mar hospital a patient is treated. Me the means to achieve it. Ident	Management translate	es tasks in terms o	of goals to be achieved and	ınd in a assigns
	(A) Management of operation (C) Management of people	ns	(B) Manageme (D) Manageme	ent of work ent of departments	(1)
14.	Tasty Delights Bakery have setting up their own retail or being discussed here:			2000년(1) 100일 100일 200 200 100일	
	(A) Product (B) Pr	ice (C)	Promotion	(D) Place	(1)
15.	Which principle of scientific management and workers?  (A) Science not rule of thum  (C) Cooperation not individual	b (B)	eded for complete Harmony, not disc Functional forema	cord	e part of
16.	A process to evaluate the em (A) Promotion (B) Select	The street of th		fered is known as:- Performance Appraisal	(1)
17.	Statement I – Interest paid of Statement II – Dividends an		77.00	nputation of tax liability.	(1)
Alter	(A) Statement I is correct an (B) Statement II is correct an (C) Both the statements are (D) Both the statements are	nd Statement I is inconcrect.			
18.	During the year 2023, Prithy result of sincerity of its emp them to continue to do the g them.	loyees. In order to gi	ve due recognitio	n to its employees and mot	ivate
	Identify the type of financia		*COLOR COM		/4
	(A) Perquisites (B) P	roductivity (C) Co	o-partnership	(D) Profit Sharing	(1

Contd...3

19. Match the following:

	COLUMN I	COLUMN II
	Product Concept	(i) It emphsises on increasing the profit through increased sales volume by adopting aggressive selling techniques.
В.	Production Concept	(ii) It emphsises on quality performance and features of product and thus profit maximization is through product improvement.
	Selling Concept	(iii) It emphasizes on profit maximization through volume of production thereby reducing the cost of production.
D.	Marketing Concept	(iv) It emphasizes on profit maximization through satisfaction of customer's needs and wants.

(A) A - ii, B - iii, C - i, D - iv (C) A - iv, B - ii, C - i, D - iii

(B) A - i, B - iv, C - ii, D - iii

(D) A - iv, B - iii, A - ii, D - i

(1)

20. Identify the consumer right from the image given below:

(A) Right to Safety

(B) Right to be Informed

(C) Right to be Heard

(D) Right to Consumer Education

(1)



21. A recent cut in the interest on loans announced by the banks encouraged Avinash, a science student of Horizon School to take a loan from State Bank of India to experiment and develop cars to be powered by fuel produced from garbage. He developed such a car and exhibited it in the Science Fair organized by Directorate of Education. He was awarded first prize for his invention. Identify and explain the dimensions of business environment discussed in the above case.

OR (3)

After completing his MBA from the USA Mr. Brijesh came to India to start a new business under the banner Creations Ltd. He launched a new product in e-learning for senior secondary school students in the science stream which already had an established market in the UK and the USA but not in India. His business started flourishing in India. As a result, more Indian companies entered into the market with other subjects also.

Identify and quote the lines from the above paragraph which highlights the significance of understanding business environment.

- 22. Differentiate between Policy and Rule on the basis of Meaning, nature and flexibility.
- 23. Mr. Rishi Dutta has recently joined AMV Ltd., a company manufacturing refrigerators. He found that his department was under-staffed and other departments were not cooperating with his department for smooth functioning of the organization.

Therefore, he ensured that his department has the required number of employees and its cooperation with other departments is improved.

(a) Identify the level at which Rishi Dutta was working?

(b) State any two functions required to be performed by Mr. Dutta at this level.

(3)

(3)

24. Textile manufacturer Super Textiles reported 43% fall in its profits in the fourth quarter ended 31<sup>st</sup> March, 2017, which is beyond the acceptable range of 25% decided by the company. This was due to higher fuel cost and lower yield on account of demonetization. The company aims to implement cost saving measures by restructuring contracts and its business processes to meet its targets in the future.

(a) Name the function of management discussed above.

(b) Also identify and explain the steps of the function of management discussed above.

OR (3)

State the relationship between 'planning 'and 'controlling'.

Identify and explain the principles of management violated in the following cases and explain them.

(a) Manay, a manager, speaks to people at all levels, including his as well as other departments.

(b) Manay, a manager, expects his subordinates to work for personal satisfaction and contentment, without any monetary reward.

(c) Manav, a manager, expects that his subordinate produces instant results without giving him sufficient time to settle in the new environment.

(d) Manav. a manager is asked to receive orders from two or more superiors.

26.	There are two companies B and D. Total contribution of capital is Rs. 40 lakh each, equity to total capital in company B is Rs. 10 lakh and debt is Rs. 30 lakh while in control equity capital is Rs. 40 lakh, sourced through equity. EBIT is Rs. 8 lakh, interest @ 10% and the tax rate is @30% for both companies.  (a) As per the above furnished details, which company enjoys the favourable financial Show the proper calculations.  (b) Identify, which concept is related to the above case.	ompany D, the st rate on debt i al leverage?	is (4)
27.	'SEBI is the watch dog of security market. Do you agree? Give any one reason for the various functions of SEBI in brief.		
	OR		(4)
	Explain the following terms:  (a) New Issue Market  (b) Depository  (c) Dematerialisation  (d) R	ights Issue	
28.	X Ltd. is engaged in the manufacturing of cars. The company surveyed the market a customers need a car which runs on eco-friendly fuel instead of petrol or diesel. Kee customers as well as social, ethical and ecological aspects of marketing in mind, the launched a new model of car that runs on bio-diesel. The launch event was covered channels and newspapers. This was done to disseminate information about the car a of the business. X Ltd. understands that it is imperative to manage public opinion as relations with the public on a regular basis.  (a) Identify and explain the marketing philosophy involved in the above case.  (b) Identify and explain the communication tool that was used by the company.  (c) Explain any two other promotional tools that can be used by X Ltd. to achieve in	ping the needs company by the top new nd build goody nd company's	vs will
29.	Anju purchased a food processing machine for Rs. 4,500 from Kajal Machinery Pvt that the machine was not working properly. Despite many complaints, the defect we Kajal Machinery Pvt. Ltd.  (a) Identify and explain the consumer right that has been violated by Kajal Machine (b) Suggest the appropriate forum where Anju can file her complaint.  (c) Can she appeal to the Supreme Court if she is not satisfied with the order of the commission? Give reason in support of your answer.	as not rectified ery Pvt. Ltd.	nd by
	Write about any four Consumer Rights.		
30.	Explain the following Scientific techniques:  (a) Time Study (b) Fatigue Study (c) Motion Study (d) Differential Piece	Wage System	(4)
31.	Voltage fluctuations have been quite high in India. They harm our electrical appliance television, refrigerators and air conditioners, often leaving them in a permanently of N-Guard Company decided to manufacture stabilisers for North India where the varianges from 220V to 230V. Once the demand for North India was taken care of, the launch stabilisers of varying voltages from 90V to 260V for meeting the requirement fluctuations in other regions of India as well.	nces like lamaged condit oltage fluctuat ey decided to	tion. ion
	Three engineers were appointed for South, West and East regions of India, as the different in all the three regions. Though all the engineers were appointed to manufact the product differed from region to region.  (a) Identify and quote the organizational structure of N-Guard.  (b) State any two advantages and two limitations of the structure identified in the	above para.	(6)
	Asha joins as a Regional Sales head in the export division of an FMCG company meeting, she asks one of her subordinates, Manik, to take charge of the company's She allocates the work to him and grants the necessary authority. However, within regular feedback on the extent of work accomplished from Manik, Asha realizes that the work as per her expectations. So, she takes away the authority delegated to him work to Prateek. Due to the time wasted in this switch over, the work at the tremendously and the company is not able to meet its desired goals. In context of the (a) Why is Manik supposed to give regular feedback about work to Asha?  (b) Can the authority granted to a subordinate be taken back and re-delegated to a (c) Can Manik be held responsible for not meeting the work related expectations suitable reason to support your answer.  (d) Differentiate between authority, responsibility and accountability on the basis of	a month by se t Manik is not and redelegate Dubai office s above case— nother person? of Asha? Give	doing doing es the uffers
32.		N	(6)
33.		diagram.	(6)
34.	OR		(6)
	Write about Promotion Mix and its elements.		

GGGGGGGG



DATE: 12.12.2024 PREBOARD EXAMINATION 2024-'25

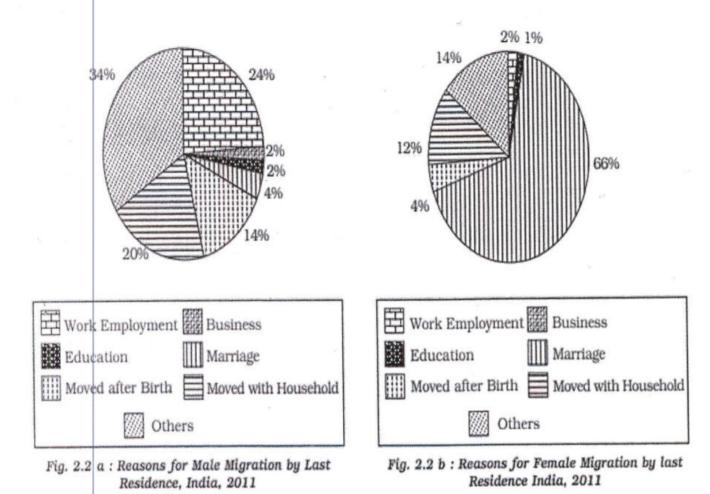
CLASS: XII SUBJECT – GEOGRAPHY (029)

Time: 3 Hrs. Max. Marks: 70

Name		Roll No.:					
1. This 2. This 3. Secti 4. Secti 5. Secti 6. Secti 7. Sect	Instructions: lestion paper contains 30 questions. All questions are compulsor lestion paper is divided into five sections. Sections – A, B, C, D a A – Question numbers 1 to 17 are Multiple Choice type question B – Question numbers 18 and 19 are Source based questions can C – Question numbers 20 to 23 are Short Answer type question Answer to these questions shall be written in 80 to 100 words and D – Question numbers 24 to 28 are Long Answer type question Answer to these questions shall be written in 120 to 150 words E – Question numbers 29 and 30 are Map based questions.	and E. ons carrying 1 mark each. arrying 3 marks each. ns carrying 3 marks each. rds. ns carrying 5 marks each. rords.					
	SECTION - A						
Q.1	here are two statements marked as Assertion (A) and Reason(R) odes provided below.  assertion (A): India's Human Development Index (HDI) rank in the season (R): HDI measures achievement in economic growth, statements:	n the world is 134.					
	A) Both Assertion (A) and Reason (R) are true but Reason (R) is Assertion (A).  B) Both Assertion (A) and Reason (R) are true and Reason (R) is Assertion (A)  C) Both Assertion (A) and Reason (R) are incorrect.  D) Assertion (A) is correct but Reason (R) is incorrect.						
Q2.	Consider the following and choose the correct answer with the he	elp of given codes					
	Match the following Column I (Type of Agriculture)  A) Co-operative Farming  B) Collective Farming  C) Dairy Farming  D) Mixed Farming	Column II (Region) 1. USSR 2. N-E USA 3. Netherlands 4. N-W Europe (1)	)				
	Options:  I II III IV (A) 1 2 3 4 (B) 3 1 4 2 (C) 4 3 2 1 (D) 2 1 3 4						
Q.3	bs that involve decision-making, scientific research and high-level management are known as:  Quinary activities (B) Secondary activities (C) Primary activities (D) Tertiary activities (D)						
Q.4	Consider the following statements and choose the correct answe Consider the following statements and choose the correct answe	r with the help of given Option: r.					
	<ol> <li>Productivity must be continuously enriched by building capabilities in people, as people are considered the real wealth of nations.</li> </ol>						
	2. For better work efficiency, it is important to put efforts to inc better health facilities.	rease their knowledge or provide					
Optio	s:  (A) Only statement 1 is correct.  (B) Only statement 2 is correct.  (C) Both the statements are correct and statement 2 correctly ex	plains statement 1.1 (1	l)				
Q.5	Given below is a list of pillars of human development and its in pair is NOT correctly matched?  (A) Equity -Making equal access to opportunities available to e (B) Sustainability - Continuity in the availability of opportunitie (C) Productivity - Resources must be used keeping in mind the (D) Empowerment- To have the power to make choices	dicators. Which of the following verybody es future	1)				

	The statement given below describes the geographical conditions requires for the great Identify the crop. It a tropical plantation crop and is cultivated in the highlands of W. Karnataka, Kerala and Tamil Nadu. Its seeds are roasted, ground and used for preparation (A) Barley (B) Cocoa (C) Sugarcane (D) Coffee	estern Ghats i ring a beverag	in
Q.7	Which country have introduced the Gross National Happiness index first?  (A) Nepal (B) Bhutan (C) Bangladesh (D) Sri Lanka	(	1)
Q.8	Given below are the steps involved in the formation of crude petroleum.  (I) Sediment is subjected to heat and pressure over millions of years.  (II) Dead plants and animals are buried under layers of sediment.  (III) The hydrocarbons are trapped in porous rocks.  (IV) Crude petroleum is extracted from the rocks.  (V) The organic matter is converted into hydrocarbons.		
	Arrange these steps in the correct order of formation.  (A) II - I - V - III - IV  (B) II - V - I - III - IV  (C) I - II - III - V - IV  (D) I - III - II - IV - V		(1)
Q.9	Which one from the following is not related with Gathering?  (A) Gathering is practised in regions with harsh climatic conditions.  (B) People extract both plants and animals to satisfy their needs for food, shelter an (C) Gathering is practised in mid latitude zone.  (D) In modern times some gathering is market oriented.		(1)
Q.10	Consider the following statements and choose the correct answer with the help of g  Statement I: High-speed trains have been introduced in many countries to provide efficient travel options.  Statement II: These trains are designed to cater specifically to long-distance trave time for tourists and business travellers.	faster and mo	ore
	<ul> <li>(A) Only statement I is correct</li> <li>(B) Only statement II is correct</li> <li>(C) Both the statements are correct, and statement II correctly explains statement I</li> <li>(D) Both the statements are true but not related with each other</li> </ul>		(1)
Q.11	deaths occurring in a year.  (A) Growth of population  (B) Natural growth rate  (C) Natural death rate  (D) Crude birth rate	ne number of	(1)
Q.12	What does the term "digital divide" refer to?  (A) The gap between people who have access to digital technologies and those who will the difference between digital devices used by young and old people (C) The division of internet access between rural and urban areas (D) The disparity in digital content available across different regions.	no do not	(1)
Q.13	High density traffic corridor that connect India's four big metro cities of Delhi – Mumbai – Chennai – Kolkata is termed as  (A) North-South Corridor (B) East-West Corridor (C) Border Road (D) Golden Quadrilateral	*	(1)
Q.1	Haryali program is related to development of:  (A) Forest Cover (B) Watershed Development (C) Soil Conservation (D) Food Grain Production		(1)

### Study the following graph and answer question no 15 to 17.



- Q.15 How many percentages of females have migrated after birth?
  (A) 20% (B) 34% (C) 4% (D) 24% (1)
- Q.16 How many percentage males migrate for marriage
  (A) 14% (B) 66% (C) 4% (D) 34% (1)
- Q.17 For what purpose maximum percentage of males and maximum percentage of females migrate?
  - (A) Females for marriage 34% and Males for business purpose 66%
  - (B) Males for Others purpose 34% and Females for marriage 66%
  - (C) Females for business 66% and Males for marriage 34%
  - (D) Males for employment 24% and Females for marriage 66%

#### SECTION - B

#### **O.18** Read the given passage carefully and answer the questions that follow:

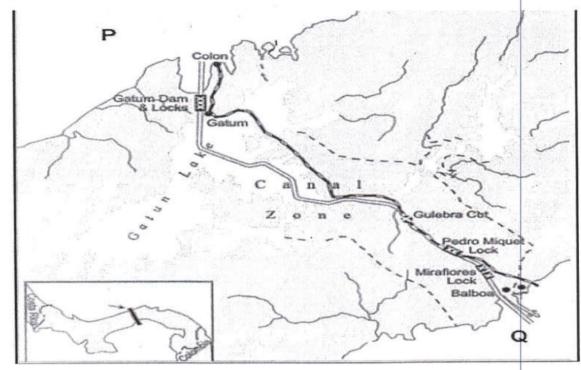
WTO is the only international organization dealing with the global rules of trade between nations. It sets the rules for the global trading system and resolves disputes between its member nations. WTO also covers trade in services, such as telecommunication and banking, and others issues such as intellectual rights. The WTO has however been criticized and opposed by those who are worried about the effects of free trade and economic globalization. It is argued that free trade does not make ordinary people's lives more prosperous. It is actually widening the gulf between rich and poor by making rich countries richer. This is because the influential nations in the WTO focus on their own commercial interests. Moreover, many developed countries have not fully opened their markets to products from developing countries. It is also argued that issues of health, worker's rights, child labour and environment are ignored.

- (a) Which organization does set the rules for the global trading system and resolve disputes between the member countries? (1)
- (b) Why the WTO has been criticized?
- (c) Why the gulf between rich and poor countries is widening? (1)

(1)

(1)

Q.19 Observe the map of the region between North and South America given below and answer the questions that follow.



	<ul><li>(A) Identify the man-made waterway depicted in the image.</li><li>(B) Name the water bodies marked as P and Q.</li><li>(C) How does this waterway contribute to environmental preservation?</li></ul>	(1) (1) (1)	
	SECTION - C Question numbers 20 to 23 are Short Answer type quest	ions.	
Q.20	Explain all the pillars of Human Development.		
	OR Distinguish between 'Basic need approach' and 'Capability approach'.	.(3)	
Q.21	What are the features of JAL KRANTI ABHIYAN?	(3)	
Q.22	Differentiate between 'naturalisation of human' and 'humanisation of nature'.		
	Who propounded Neodeterminism? Explain about this concept.	(3)	
Q.23	'Outsourcing has resulted in opening up a large number of job opportunities in set Analyze the statement with three suitable examples.	veral countries.'	
	SECTION - D Question numbers 24 to 28 are Long Answer Type ques	tions.	
Q.24	Why is dairy farming practised near urban and industrial centres? Name two regional dairy farming and write two reasons for its high capital requirements.	ons of commercial (5)	
Q.25	What are the guidelines to promote sustainability in the Indira Gandhi Canal Con	nmand area. (5)	
Q.26		wasteland. (5)	
	OR  The Swaachh Bharat Mission is part of the urban renewal mission launched by the India to improve the quality of life in urban slums. Describe the challenges of slums.	e Government of ms in India. (5)	)
Q.27	How has the rise of high-tech industries changed the landscape of global manufa	cturing?	
	"Explain with examples the factors influencing industrial location.	(5)	É
Q.28	The composition of commodities in India's international trade has been undergointhe years. Substantiate the statement with suitable arguments.	ng a change over	

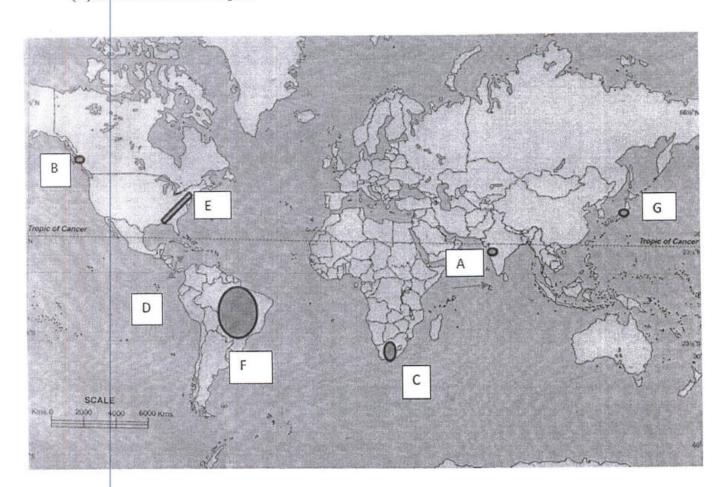
OR

of humans.?

What are the modes by which cyber space will expand the contemporary economic and social space

### SECTION - E Question numbers 29 & 30 are Map based questions having 5 sub-parts each.

- Q.29 On the given political map of the World, seven geographical features have been marked as A, B, C, D, E, F and G. Identify any five with the help of the following information and write their correct names on the lines drawn near each feature.
  - (A) An International Airport -
  - (B) A major sea-port -
  - (C) Grasslands of Africa with extensive commercial grain farming -
  - (D) An important Shipping Canal -
  - (E) Industrial region of the US.
  - (F) Largest Country of South America -
  - (G) An International Airport -



- Q.30 Locate and label any five of the following geographical features on the Political Outline map of India with appropriate symbols:
  - (a) An important seaport in Karnataka.
  - (c) Khetri copper mines.
  - (e) The state with highest population density.
- (b) An important coal mine in Tamil Nadu.
- (d) An oil refinery in Gujarat.
- (f) The state leading in the production of tea.

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DATE: 19.12.2024

CLASS: XII

PREBOARD EXAMINATION 2024-'25

SUBJECT - PHYSICAL EDUCATION (048)

Time: 3 Hrs. Max. Marks: 70

General Instructions:

The question paper consists of 5 sections and 37 questions. (1)

Section A consists of question 1-18 carrying 1 mark each and is multiple choice questions. All (2)questions are compulsory.

Section B consists of questions 19-24 carrying 2 marks each and are very short answer types and (3)should not exceed 60-90 words. Attempt any 5 questions.

(4) Section C consist of questions 25-30 carrying 3 marks each and are short answer types and should not exceed 100-150 words. Attempt any 5 questions.

(5) Section D consist of question 31-33 carrying 4 marks each and are case studies. There is internal choice available.

(6) Section E consist of question 34-37 carrying 5 marks each and are short answer types and should not exceed 200-300 words. Attempt any 3 questions. 

#### Section - A

#### (Multiple Choice Questions MCQs)

(1)Which of the following Pranayama is helpful to reduce obesity? Q.1 (B) Anulom Vilom Pranayama (A) Kapalbhati Pranayama (D) Sitili Pranayama

(C) Suryabhedan Pranayama

International Paralympic Committee was formed in -(B) 2003 (A) 1985

(C) 1989

(D) 2001

(1)

(1)

Which of the following is not the cause of food intolerance? Q.3

(A) Toxins formation due to food poisoning

(B) Absence of an enzyme

(C) Roughage

Q.2

(C) Gluten

Given below are two statements labelled Assertion (A) and Reason (R). 0.4

Assertion (A): The Basal Metabolic Rate (BMR) is the number of calories needed to maintain body function at resting condition.

Reason (R): A person who does not engage in any work still requires energy for the functioning of their (1)internal organs.

### In the context of the above two statements, which one of the following option is correct?

(A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

(B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).

(C) Assertion (A) is true, but Reason (R) is false.

(D) Assertion (A) is false, but Reason (R) is true.

Given below are functions of Sports Management in List - I and their Explanation in List - II. (1) Q.5

-	List-I	List – II
a.	Planning	1. It is the function of guiding, inspiring and instructing people to accomplish organizational goals.
b.	Controlling	2. Preparing a layout for the future course of action.
-	Directing	3. Ensuring that proper talent is serving that specific job.
	Staffing	4. Establishing performance standards, measuring actual performance and comparing them for irregularities.

Codes:

	а	b	c	d		a	b	c	d
(A)	1	2	3	4	(B)	1	2	4	3
(C)	2	4	1	3	(D)	2	4	3	1

In partial curl up test the difference between two parallel line is Q.6

(C) 6 inches

(D) 10 inches

In which of the following fitness components an athlete gives better performance. If he/she has more slow Q.7 twitch fibre in comparison to fast twitch fibres?

(A) Speed

(A) Larger base

(A) 8 inches

(B) Strength

(B) 4 inches

(C) Endurance

(D) Flexibility

Identify the factor which decreases equilibrium: Q.8

(B) Greater weight

(C) Lower centre of gravity (D) Higher centre of gravity

Identify the asana shown in the picture given below and choose the correct option from the following: (1) Q.9

(A) Bujangasana

(B) Kitichakrasana (C) Pawanmuktasana

(D) Shalbhasana



(1)

(1)

(1)



	** 34 **	
Q.10	Jump for smash in volleyball is an example of –  (A) Static strength (B) Maximum strength (C) Explosive strength (D) Stre	ngth endurance
Q.11	Which of the following is the objective of intramural competition?  (A) To achieve high performance (B) To provide career opportunities (C) To promote health and fitness (D) To promote cultural and economic development	(1)
Q.12	According to World Health Organisation (W.H.O.) recommendations, Children should physical activities for 180 minutes and should have $10-13$ hours of good quality sleep (A) Less than 1 year (B) $1-2$ year (C) $3-4$ year (D) $5-17$ year	per day.
Q.13	Which of the main governing body responsible for the organisation of Deaflympics?  (A) World Deaf Champions Committee  (B) National Sports Federation  (C) International Co-coordinating Committee for Disabled Sports  (D) International Committee of Sports for the Deaf.	(1)
Q.14	Body Mass Index is one of the common ways of assessing healthy body weight. Which of ranges is considered for healthy weight?  (A) 25.0-29.9  (B) 30.0-34.9  (C) 18.0-24.9  (D) 35.0-39.9	the following BMI (1)
Q.15	Goal setting is a approach under which motivational technique.  (A) Cognitive (B) Pedagogical (C) Social (D) Facilitation	(1)
Q.16	Given below are two statements labelled Assertion (A) and Reason (R).	
	Assertion (A): In a normal standing posture, both knees touch each other, while there	is a gap of
	<ul> <li>3 - 4 inches between the ankles.</li> <li>Reason (R): It occurs due to Genu Valgum and it can develop due to an injury or inferor leg, rickets, severe lack of Vitamin D and calcium, obesity or arthritis</li> </ul>	ection in the knees in the knee. (1)
	In the context of the above two statements, which one of the following option is ed	
	<ul> <li>(A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation</li> <li>(B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explana</li> <li>(C) Assertion (A) is true, but Reason (R) is false.</li> <li>(D) Assertion (A) is false, but Reason (R) is true.</li> </ul>	of Assertion (A). tion of Assertion (A).
Q.17	Which functional fitness component for senior citizens is determined in the test shows	n below? (1)
	(A) Physical Mobility (B) Upper Body Flexibility (C) Lower Body Flexibility (D) Upper Body Strength	
Q.48		(1)
	(A) Meet unknown people easily (C) Highly socialised (B) Self centred (D) Expressive nature	
	Section – B (Attempt any 5 Questions)	(1+1-2)
Q.19		(1+1=2)
Q.2	Enlist four test items of Johnson - Metheny Test of Motor Educability.	(½x4=2)
Q.2	1 Write short note on 'Menarche'.	(2)
Q.2		(½x4=2)
Q.2		/SN). (1+1)
Q.2		(1+1)
	Section – C (Attempt any 5 Questions)	
Q.2	Arun performs the Harvard Step Test for 275 seconds and his pulse is 1–1.5 minute 100. Write the formula of fitness index score for Harvard Step Test and calculate the Arun.	(1+2)
Q.2	Comment on the concept of 'Talent Identification' and 'Talent Development'.	(1½+1½)
Q.	1 1 1ts compatition	(1½+1½)
Q.	C. Laskasia	(2+1)
Q.	29 Write short note on Female Athlete Triad.	(2)
Q.	30 Describe any three physiological changes due to ageing.	(1+1+1)
		0 41 2

Contd...3

### Section - D (Internal Choices Available)

Q.31 A survey in an inclusive school setup found the discrepancies between the participation of normal and (4x1=4)special child during annual sports meet. Study the table given below carefully.

S.No.	Event	Normal Child (150)	Special Child (10)
1.	100 Mtr.	40	5
2.	400 Mtr.	25	2
3.	Long Jump	20	0
4.	High Jump	15	1
5.	Relay Race	8	4

Based on	the above study	and your	knowledge,	answer the	following	questions:
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event, there is no participation of special child. (a) As per the above table, in

(b) Participation of student with disabilities in regular physical education classes is known as

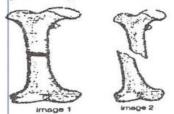
(c) Enlist any two strategies to make physical activities accessible for children with special needs.

(d) The motto of special Olympics is \_

The motto of Paralympic is

Q.32 Study the pictures given below:

(4x1=4)



Based on the above study and your knowledge, answer the following questions:

(a) Which type of fracture you see in image 1?

(b) When a bone breaks diagonally as shown in image 2, it is known as \_

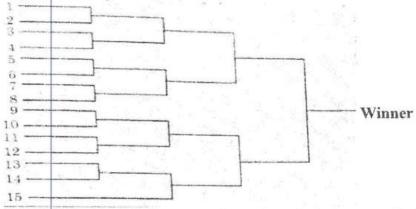
fracture occurs when the broken ends of the bones are jammed together by the force of the injury. (c)

(d) In which type of fracture bone is broken, splinted or crushed into number of pieces.

How many types of bone fractures?

Q.33 Study the fixture given below.

(4x1=4)



On the basis of the above study and your knowledge, answer the following questions.

(a) According to the above fixture, total number of rounds will be \_

(b) As shown in the fixture, if the winner team plays least number of matches, then which number of

(c) What is the formula for calculating number of matches in a knockout tournament?

(d) If 15 teams are participating in a knockout tournament, then how many byes will be given to draw a knock out fixture?

What is the formula for calculating total number of byes in upper half and lower half in a knockout tournament?

Section - E

(Attempt any 3 Questions)

What do you understand by aggression in sports? Explain any two types of aggression by given suitable Q.34 (1+2+2=5)example from sports.

What is Balanced Diet? What is the significance of pre and post competition meal for an athlete? Explain. Q.35 (1+2+2=5)

What do you understand by projectile trajectory? Explain the factors affecting projectile trajectory in Q.36(1+4=5)

What is endurance? Explain any types of endurance on the basis of duration of the activity with suitable 0.37 (1+2+2=5)examples from sports.