



DELHI PUBLIC SCHOOL, BHILAI

Date : 14.09.2022

FIRST TERM EXAMINATION-2022

Time : 3 Hrs.

Class : X

Subject : English Language and Literature

Max. Marks : 80

General Instructions :

1. This paper is divided into three sections: A, B and C. All questions are compulsory.
2. Separate instructions are given with each section and question, wherever necessary. Read these instructions very carefully and follow them.

SECTION A : READING SKILLS (20 marks)

Q1. Read the passage given below:

10 marks

The choices we make on a daily basis—wearing a seatbelt, lifting heavy objects correctly or purposely staying out of any dangerous situation—can either ensure our safety or bring about potentially harmful circumstances. You and I need to make a decision that we are going to get our lives in order. Exercising self-control, self-discipline and establishing boundaries and borders in our lives are some of the most important things we can do. A life without discipline is one that's filled with carelessness.

We can think it's kind of exciting to live life on the edge. We like the image of "Yeah! That's me! Living on the edge! Woo-hoo!" It's become a popular way to look at life. But if you see, even highways have lines, which provide margins for our safety while we're driving. If we go over one side, we'll go into the ditch. If we cross over the line in the middle, we could get killed. And we like those lines because they help to keep us safe. Sometimes we don't even realize how lines help to keep us safe.

I'm not proud of this, but for the first 20 years of my life at work, I ignored my limits. I felt horrible, physically, most of the time. I used to tell myself "I know I have limits and that I've reached them, but I'm going to ignore them and see if or how long I can get by with it." I ran to doctors, trying to make myself feel better through pills, vitamins, natural stuff and anything I could get my hands on. Some of the doctors would tell me, "It's just stress." That just made me mad. I thought stress meant you don't like what you do or can't handle life, and I love what I do. But I kept pushing myself, travelling, very busy with speaking engagements and so on— simply exhausting myself.

Finally, I understood I was living an unsustainable life and needed to make some changes in my outlook and lifestyle.

You and I don't have to be like everyone else or keep up with anyone else. Each of us needs to be exactly the way we are, and we don't have to apologize for it. We're not all alike and we need to find a comfort zone in which we can enjoy our lives instead of making ourselves sick with an overload of stress and pressure.

On the basis of your understanding of the passage, answer ANY TEN out of twelve questions from the questions that follow. (1x10=10)

i. The reason why living on the edge has become popular, is because of the

- (a) constant need for something different. (b) population being much younger.
(c) exhausting effort to make changes. (d) strong tendency to stay within our limits.

ii. Choose the option that best captures the central idea of the passage from the given quotes.

1. It's all about quality of life and finding a happy balance between work and friends- Philip Green.
2. To go beyond is as wrong as to fall short -Confucius.
3. Life is like riding a bicycle. To keep your balance you must keep moving – Albert Einstein.
4. Balance is not something you find, it's something you create – Jana Kingsford.

- (a) Option (1) (b) Option (2) (c) Option (3) (d) Option (4)

iii. Which of the characteristics are apt about the writer in the following context: "I know I have limits and that I've reached them, but I'm going to ignore them and see if or how long I can get by with it."?

1. negligent 2. indecisive 3. spontaneous 4. reckless 5. purposeless 6. patient
(a) 2 and 5 (b) 3 and 6 (c) 1 and 4 (d) 2 and 3

iv. Which of the following will be the most appropriate title for the passage?

- (a) Much too soon (b) Enough is enough
(c) How much is too much? (d) Have enough to do?

v. The phrase "potentially harmful circumstances" refers to circumstances that can

- (a) certainly be dangerous (b) be fairly dangerous.
(c) be possibly dangerous. (d) seldom be dangerous.

vi. Select the option that makes the correct use of "unsustainable", as used in the passage, to fill in the blank space.

- (a) In the long run, the _____ officials followed emergency procedures.
(b) Emergency procedures were _____ by the officials.
(c) Officials reported an _____ set of events during the emergency.
(d) Officials admit that the emergency system is _____ in the longer run.

Contd...2

- vii. The author attempts to _____ the readers through this write-up.
 (a) rebuke (b) question (c) offer aid to (d) offer advice to
- viii. The author uses colloquial words such as “yeah” and “Woo-hoo!”. Which of the following is NOT a colloquial word?
 (a) hooked (b) guy (c) stuff (d) stress
- ix. What does the author mean when he says, “to get our lives in order”?
 (a) To resume our lives. (b) To organize our lives. (c) To rebuild our lives. (d) To control our lives.
- x. Choose the option that correctly states the two meanings of ‘outlook’, as used in the passage.
 1. A person’s evaluation of life 2. A person’s experiences in life
 3. A person’s point of view towards life 4. A person’s regrets in life
 5. A person’s general attitude to life
 (a) (1) and (4) (b) (2) and (3)
 (c) (3) and (5) (d) (4) and (5)
- xi. The author explains the importance of discipline and boundaries in our lives using the example of
 (a) road accidents. (b) traffic rules. (c) lines on the highway. (d) safe driving.
- xii. What is the message conveyed in the last paragraph of the passage?
 (a) Love what you do. (b) Love yourself to love others.
 (c) Be the best version of yourself. (d) Be yourself.

Q2. Read the passage given below:

10 Marks



- Man suffers from a distorted complex. He always considers animals as inferior beings only fit for exploitation. Man has been using domestic and wild animals for his selfish ends. Many animal lovers joined together to form the ‘Society for Prevention of Cruelty to Animals’.
- The society has been working for the well-being and welfare of animals for many years. Its main aim is to change the attitude and thinking of people towards animals. It is quite sad that animals continue to be ill-treated, tortured and killed according to the whims of the people. About 15% of people entertain the belief that animals are man’s slaves. They use, misuse and torture them accordingly. About 50% of the people exploit animals for selfish ends.
- Horses and oxen are used for transport, carrying loads and in agricultural activities. Dogs, cats and many birds are domesticated for fun, entertainment and convenience. Wild animals like elephants, tigers, lions and deer are victims of poaching and killing.

Animals are forced to do acrobatic feats in circus shows. Unfortunately, about 35% of people don’t think about the animals at all. They are totally indifferent to them.
- The Government and the animal lovers must work together to bring a change in the attitude of the people. Animals should not be killed and poached for fun, furs or financial gains. They should be treated with kindness, care and sympathy. Cruelty towards animals must be legally punished.

A. On the basis of your understanding of the passage, attempt the following questions: (1x6=6)

- In the line ‘... fit for exploitation’, the word ‘exploitation’ does not refer to:
 (a) abuse (b) ill-treatment (c) oppression (d) utilisation
- The synonym of ‘Distorted’ is
 (a) Covenanted (b) Confronted (c) Conceded (d) Contorted
- Man always considers animals as:
 (a) superior beings (b) inferior beings (c) powerful beings (d) All of these
- Man considers animals fit for:
 (a) exploitation (b) working hard (c) helping man (d) None of these
- For many years, ‘Society for Prevention of Cruelty to Animals’ has been working for:
 (a) Destruction of animals (b) Exploitation of animals
 (c) The welfare of animals (d) All of these
- Animals like elephants, tigers, lions and deer _____ .
 (a) are forced to do acrobatic feats in circus shows.
 (b) are domesticated for fun, entertainment and convenience.
 (c) are victims of poaching and killing.
 (d) are used for transport, carrying loads and in agricultural activities.

B. Attempt ANY FOUR out of six questions.

1x4=4

- (i) Why does man consider animals fit for exploitation?
- (ii) What is the main goal of the "Society for Prevention of Cruelty to Animals"?
- (iii) What percentage of people exploit animals for selfish ends?
- (iv) Why do some people domesticate dogs, cats and birds?
- (v) How should animals be treated?
- (vi) Mention the percentage of people who don't think about animals at all.

SECTION B : WRITING & GRAMMAR (20 Marks)

- Q3.** The following paragraph has not been edited. There is one error in each line. Write the incorrect word and the correction in your answer sheet against the correct blank number. **1x3=3**

	Error	Correction
Tsunami is a series in waves	e.g. in	of
generated in a body from water	(a) _____	_____
through an impulsive disturbance	(b) _____	_____
causing damage to property or loss of life.	(c) _____	_____

- Q4.** Choose the most appropriate option from the ones given below to complete the following passage:
Attempt ANY FOUR out of six. **1x4=4**

Bark is dead wood. It (i) _____ tough and waterproof and (ii) _____ the living wood (iii) _____. Each year (iv) _____ tree (v) _____ a new layer or ring of new wood. From a sawn-through trunk you can tell the age of a tree by counting the (vi) _____ of rings.

- | | | | | |
|-------|---------------|----------------|--------------------|-----------------|
| (i) | (a) is | (b) was | (c) are | (d) were |
| (ii) | (a) protected | (b) protects | (c) was protecting | (d) protect |
| (iii) | (a) under | (b) underneath | (c) below | (d) beside |
| (iv) | (a) a | (b) an | (c) few | (d) some |
| (v) | (a) forms | (b) formed | (c) form | (d) was forming |
| (vi) | (a) grow | (b) grew | (c) size | (d) growth |

- Q5. Read the dialogue given below and complete the paragraph.** **1x3=3**

Mother : Why are you looking so worried?
 Daughter : My exams are approaching.
 Mother: When will they start?
 Daughter : Next month, Mother.

Mother asked her daughter (a) _____. The daughter replied that (b) _____. Mother further asked (c) _____. The daughter told her mother that they would start in the following month.

- Q6.** You are Neena/Navin, a student of Max Public School, Mumbai. You are concerned about the lack of awareness about proper disposal of masks. People have adapted to wearing face masks as a 'new normal'. But most of them do not know how to dispose off the masks properly. Write a letter in about 100-120 words to the editor of "The Times of India", New Delhi about the need to raise awareness regarding the disposal of protective masks. **5 Marks**

OR

Write a letter in about 100-120 words to the Editor of 'National Herald', New Delhi, about the scarcity of water in your locality suggesting ways to improve the position of water supply. You are Kunal/Karuna of 24, Pushpak Nagar, Ghaziabad.

- Q7.** You are Raman/Reena of 240, Shahid Nagar, Agra. Write a letter to M/s Raju Sales Corporation complaining about the poor performance of the washing machine purchased from their showroom, mentioning clearly the specific problem you are facing and the action you want. Give all the relevant details. **5 Marks**

OR

You are Akash/Akansha Tiwari, the Physical Education Instructor at St. Jesus and Mary School, Agra. You had placed an order for sports goods with Student Sports Enterprises. When the items arrived you found that some of them were defective. Write a letter of complaint to the Manager, Student Sports Enterprises, asking him to replace the defective items.

SECTION C - LITERATURE (40 marks)

- Q8. A. Read the extracts given below and attempt ANY ONE, by answering the questions that follow:**

(1x5=5)

Then a monstrous terror seized him and his heart stood still. He could hear nothing. But it only lasted a minute. The next moment he felt his wings spread outwards. The wind rushed against his breast feathers, then under his stomach, and against his wings. He could feel the tips of his wings cutting through the air. He was not falling headlong now. He was soaring gradually downwards and outwards, He was no longer afraid.

He just felt a bit dizzy. Then he flapped his wings once and he soared upwards. "Ga, ga, ga, Ga, ga, ga, Gaw-col- ah," his mother swooped past him, her wings making a loud noise. He answered her with another scream. Then his father flew over him screaming. He saw his two brothers and his sister flying around him curving and banking and soaring and diving.

Contd...4

- (a) What did the young seagull feel the next moment?
- (b) What did the young seagull's mother do?
- (c) How did the young seagull's father express his happiness?
- (d) Find out the word from the passage that means the same as 'fly high in the air'.
- (e) Find out the word from the passage which is an antonym of 'fearlessness'.

OR

Tenth May dawned bright and clear. For the past few days, I had been pleasantly besieged by dignitaries and world leaders who were coming to pay their respects before the inauguration. The inauguration would be the largest gathering ever of international leaders on South African soil. The ceremonies took place in the lovely sandstone amphitheatre formed by the Union Buildings in Pretoria. For decades this had been the seat of white supremacy, and now it was the site of a rainbow gathering of different colours and nations for the installation of South Africa's first democratic, non-racial government.

- (a) Whom does 'I' refer to in the passage?
- (b) What is the significance of tenth May?
- (c) What is the ceremony that is referred to here?
- (d) Where did the ceremony take place?
- (e) Which word in the passage means the same as 'placement of person in office with ceremony'?

B. Read the extracts given below and attempt ANY ONE, by answering the questions that follow: (1x5=5)

What is the boy now, who has lost his
ball, What, what is he to do? I saw it go
Merrily bouncing, down the street, and then
Merrily over—there it is in the water!

- (a) Name the poem and poet.
- (b) What has the boy lost?
- (c) What did he see?
- (d) Where did the ball go?
- (e) Name the poetic device used in the first two lines.

OR

If strolling forth, a beast you view,
Whose hide with spots is peppered,
As soon as he has leapt on you,
You'll know it is the Leopard.
'Twill do no good to roar with pain,
He'll only lep and lep again.

- (a) What is the hide peppered with?
- (b) What is the rhyme scheme of the extract?
- (c) When does one come to know that it is a leopard?
- (d) Which word in the above stanza refers to 'animal'?
- (e) Name the poetic device used in the third line.

Q9. Answer ANY FOUR out of five questions in 40-50 words each. (3x4=12)

- (a) Who, according to Nelson Mandela, is a courageous man?
- (b) Why did Mr. Keesing call Anne 'an incorrigible chatterbox'? Give two reasons to support your answer.
- (c) The use of symbolism in the poem 'Fire and Ice' conveys the poet's message effectively. Expand with reference to the poem.
- (d) Why does Amanda say, "I am Rapunzel"? What does she promise not to do?
- (e) What message does the poet want to convey through the poem, 'A Tiger in the Zoo'?

Q10. Answer ANY TWO out of three questions in 40-50 words each. (3x2=6)

- (a) Why does Mrs Pumphrey think the dog's recovery is 'A triumph of surgery'?
- (b) How did the invisible man first become visible?
- (c) Who is the real culprit in the story "A Question of Trust"?

Q11. Answer ANY ONE out of two questions in 100-120 words. (6x1=6)

Lencho had faith in God but lacked faith in humanity. Elaborate with reference to 'A Letter to God'.

OR

What did the pilot ask the woman at the control centre and why? What made the woman in the control room look at the narrator strangely? What message does the narrator give through the story 'The black aeroplane'?

Q12. Answer ANY ONE out of two in 100-120 words. (6x1=6)

Hari Singh says; "He knew it but neither his lips nor his eyes showed anything." Anil successfully addressed the situation by not addressing it at all. Elaborate based on your reading of The Thief's Story.

OR

What impression do you form of Ausable as a secret agent after reading the story "The Mid night Visitor"?



सामान्य निर्देश :-

- इस प्रश्नपत्र के चार खण्ड हैं - क, ख, ग और घ।
- चारों खण्डों के प्रश्नों के उत्तर देना अनिवार्य है।
- यथासंभव प्रत्येक खण्ड के उत्तर क्रमशः दीजिए।

खण्ड - 'क'

प्र.1. निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए-

(2+2+2+2+1+1=10)

जीवन का कोई भी रास्ता सफल अथवा निर्बाध नहीं होता। कामयाबी के हर रास्ते में कई मुश्किलों का आना तय है। हर बड़ी सफलता के पीछे अनेक छोटी-छोटी असफलताएँ छिपी रहती हैं। किसी बड़े पत्थर के टुकड़े करने के लिए हमें उस पर असंख्य प्रहार करने पड़ते हैं। अंत में एक प्रहार ऐसा होता है कि वह पत्थर को दो टुकड़ों में बाँट देता है। लेकिन क्या अंतिम प्रहार से पहले किए गए सारे प्रहार निरर्थक थे? नहीं। ऊपर से बेशक पहले का हर प्रहार निरर्थक लगता हो, लेकिन हर प्रहार पूरी तरह सार्थक था; क्योंकि उन प्रहारों में ही अंतिम प्रहार की सफलता छिपी हुई थी। हर चोट ने निरंतर उस पत्थर को टूटने के अधिकाधिक निकट ला दिया था। वास्तव में थोड़ी-बहुत असफलताओं के बिना सफलता संभव ही नहीं। व्यक्ति अपनी सफलताओं की बजाय असफलताओं से सीखता है। हर असफलता से उसे पुनर्मूल्यांकन का अवसर मिलता है। सफलता के बाद हम कभी अपना पुनर्मूल्यांकन नहीं करते। समस्या आए बगैर हम रास्ता नहीं खोजते। समस्याएँ ही हमें उपाय खोजने के लिए प्रेरित करती हैं, हमें चिंतनशील बनाती हैं, हम में धैर्य का विकास करती हैं। ठोकर खाने के बाद ही हम अपनी असफलता का कारण जानने का प्रयास करते हैं। उसके बाद ही नए सिरे से आगे बढ़ने के लिए अपनी क्षमता का विकास करते हैं। जीवन की हर असफलता किसी बड़ी सफलता का आधार बनती है।

- बड़े पत्थर के टुकड़े को तोड़ने में उस पर पड़ने वाले किस प्रहार का अधिक महत्त्व है और क्यों?
- व्यक्ति अपनी सफलताओं की अपेक्षा असफलताओं से अधिक सीखता है। क्यों?
- जीवन में समस्याओं का क्या महत्त्व है?
- जीवन की हर असफलता किसी बड़ी सफलता का आधार बनती है। स्पष्ट कीजिए।
- रेखांकित पद के लिए किस समानार्थी शब्द का गद्यांश में प्रयोग किया गया है?
- प्रस्तुत गद्यांश के लिए उपयुक्त शीर्षक लिखिए।

खण्ड - 'ख'

प्र.2. निम्नलिखित वाक्यों के रेखांकित पदबंधों को पहचानकर भेद लिखिए-

(कोई-4)

(4x1=4)

- हमने काला, जहरीला साँप देखा।
- थका-हारा मजदूर लेटते ही सो गया।
- तताँरा एक नेक और मददगार व्यक्ति था।
- धीरे-धीरे नाव पानी में डूबती चली गई।
- वह इधर-उधर देखता हुआ चल रहा था।

प्र.3. निर्देशानुसार वाक्य रूपांतरण कीजिए- (कोई-4)

(4x1=4)

- अधिक पढ़ने पर अधिक लाभ होगा। (मिश्र वाक्य में)
- गरजते बादलों में बिजली कौंध रही है। (संयुक्त वाक्य में)
- वह लड़का गाँव गया और बीमार हो गया। (सरल वाक्य में)
- वे हरदम किताबें खोलकर अध्ययन करते रहते थे। (संयुक्त वाक्य में)
- मेरे बीमार होने पर तुम्हारे हाथ-पाँव फूल जाएँगे। (मिश्र वाक्य में)

प्र.4. निर्देशानुसार उत्तर दीजिए- (कोई-4)

(4x1=4)

- 'नीलकमल' का समास विग्रह कीजिए।
- 'पानी की चक्की' (पनचक्की) में कौन सा समास है?
- 'बाधायदा' का समास विग्रह कीजिए और भेद लिखिए।
- आँचरहित' का समास विग्रह कीजिए।
- 'शब्दहीन' का समास विग्रह कीजिए और भेद लिखिए।

प्र.5. (i) निम्नलिखित मुहावरों को वाक्यों में प्रयोग कीजिए- (कोई-2)

(1+1=2)

- (क) अंधे के हाथ बटेर लगना (ख) दाँतों पसीना आना (ग) बाट जोहना

(ii) उपयुक्त मुहावरे से निम्नलिखित वाक्यों के रिक्त स्थानों की पूर्ति कीजिए-

(1+1=2)

- (क) सफलता पाने के लिए बहुत.....पड़ते हैं।
(ख) जब तक मनुष्य पर जिम्मेदारी नहीं आती, तब तक उसे.....पता नहीं चलता।

खण्ड - 'ग'

प्र.6. निम्नलिखित प्रश्नों के उत्तर लगभग 30-40 शब्दों में लिखिए- (3+3+2=8)

- (क) 'आज जो बात थी वह निराली थी' - किस बात से पता चल रहा था कि आज का दिन अपने आपमें निराला है? 'डाथरी का एक पन्ना' पाठ के आधार पर स्पष्ट कीजिए।
- (ख) 'तताँरा-वामीरो कथा' का क्या संदेश है?
- (ग) छोटे भाई ने बड़े भाई साहब के नरम व्यवहार का क्या फायदा उठाया?

प्र.7. पुलिस कमिश्नर के नोटिस और कौंसिल के नोटिस में क्या अंतर था? (5)

अथवा

'बड़े भाई साहब' पाठ में लेखक ने समूची शिक्षा के किन तौर-तरीकों पर व्यंग्य किया है? क्या आप उनके विचारों से सहमत हैं? स्पष्ट कीजिए।

प्र.8. निम्नलिखित प्रश्नों के उत्तर लगभग 30-40 शब्दों में दीजिए- (3+3+2=8)

- (क) दीपक दिखाई देने पर अँधियारा कैसे मिट जाता है? 'साखी' के संदर्भ में स्पष्ट कीजिए।
- (ख) श्रीकृष्ण की चाकरी करने से मीरा को कौन-कौन से तीन लाभ मिलेंगे?
- (ग) पावस किसे कहते हैं? कविता में 'पावस ऋतु' किसे कहा गया है? 'पर्वत प्रदेश में पावस' के संदर्भ में स्पष्ट कीजिए।

प्र.9. 'मनुष्यता' कविता के आधार पर 'मनुष्यता' के लक्षणों की चर्चा विस्तारपूर्वक कीजिए। (5)

अथवा

'तोप' कविता में 'तोप' की कौन-कौन सी दो स्थितियाँ दिखाई गई हैं? उनके द्वारा कवि क्या संदेश देना चाहता है?

प्र.10.(क) हरिहर काका के प्रति उनके परिवार के व्यवहार पर अपने विचार लिखिए और यह भी बताइए कि बुजुर्गों के प्रति कैसा व्यवहार करना चाहिए? (3)

(ख) अनपढ़ होते हुए भी हरिहर काका दुनिया की बेहतर समझ रखते हैं। कहानी के आधार पर स्पष्ट कीजिए। (3)

खण्ड - 'घ'

प्र.11. निम्नलिखित में से किसी एक विषय पर दिए गए संकेत बिंदुओं के आधार पर लगभग 100 शब्दों में अनुच्छेद लिखिए- (6)

- (क) जानलेवा प्लास्टिक
- (i) सस्ता और सुलभता के कारण लोकप्रिय (ii) दूषित रसायनों की खान
- (iii) प्रतिबंध की आवश्यकता
- (ख) वृक्षारोपण का महत्त्व
- (i) वृक्षारोपण का अर्थ (ii) वृक्षारोपण क्यों?
- (iii) वृक्षारोपण दायित्व
- (ग) भारत के गाँव
- (i) भारत : गाँवों का देश (ii) गाँवों का पर्यावरण
- (iii) स्वतंत्रता से पहले के गाँव (iv) आज की बदलती स्थिति

प्र.12. आप भरत/भारती हैं। रेल द्वारा बुक कराकर भेजा गया धरेलू सामान आपके निकटस्थ स्टेशन 'भिलाई' तक नहीं पहुँचा है। इसकी शिकायत करते हुए रेल-प्रबंधक को एक पत्र लिखिए। (6)

अथवा

'स्वच्छ भारत-स्वस्थ भारत' अभियान का आपके आस-पड़ोस में क्या प्रभाव दिखाई देता है? उसकी अच्छाइयों और सीमाओं की चर्चा करते हुए किसी समाचार पत्र के संपादक को पत्र लिखिए।

प्र.13. दिल्ली पब्लिक स्कूल दिनांक 2 अक्टूबर से 8 अक्टूबर तक दशहरा अवकाश के लिए बंद रहेगा। इस आशय की सूचना जारी कीजिए। (5)

अथवा

अपने मुहल्ले में साफ-सफाई रखने हेतु कल्याण समिति के सचिव होने के नाते इससे संबंधित सूचना लगभग 50 शब्दों में लिखिए।

प्र.14. आपकी कक्षा को विद्यालय के मेले के लिए हस्तनिर्मित सामग्री और चित्रों की प्रदर्शनी लगानी है। अपनी प्रदर्शनी के लिए लगभग 50 शब्दों में एक विज्ञापन तैयार कीजिए। (5)

अथवा

अपने विद्यालय में होने वाले 'आज़ादी का अमृत महोत्सव' समारोह से संबंधित विज्ञापन लगभग 50 शब्दों में तैयार कीजिए।



समय: होरात्रयम्
कक्षा- दशमी

दिल्ली-पब्लिक-स्कूल, भिलाईनगरम्

अर्द्धवार्षिकी परीक्षा- 2022-2023

विषय: - संस्कृतम्

दिनाङ्कः 19.09.2022

पूर्णाङ्कः 80

सामान्य-निर्देशः

- (i) अस्मिन् प्रश्नपत्रे चत्वारः खण्डाः सन्ति ।
(ii) सर्वे प्रश्नाः अनिवार्याः ।
(iii) प्रश्नानाम् उत्तराणि संस्कृतभाषायामेव लेखनीयानि ।
'क' खण्डः - अपठित-अवबोधनम् - 10 अङ्काः
'ख' खण्डः - रचनात्मक-कार्यम् - 15 अङ्काः
'ग' खण्डः - अनुप्रयुक्त-व्याकरणम् - 25 अङ्काः
'घ' खण्डः - पठित-अवबोधनम् - 30 अङ्काः

'क' खण्डः - अपठित-अवबोधनम् - 10 अङ्काः

1. अधोलिखितं गद्यांशं पठित्वा प्रश्नान् उत्तरत-

एतत् दृश्यते यत् वर्तमानसमयः युगं वा सङ्गणकस्य युगं वर्तते। वैज्ञानिकैः प्रतिदिनं नूतनाः आविष्काराः क्रियन्ते। तेषु एकः महत्वपूर्णः आविष्कारः चलभाषियन्त्रं (मोबाइल फोन) वर्तते। समयेऽस्मिन् बालाः वृद्धाः युवकाः युवत्यः तथा च सर्वे नागरिकाः अस्योपयोगं कुर्वन्ति। एतत् यन्त्रं सर्वेषां कृते कर्णाभूषणम् इव प्रतीयते। जनाः यानानि आरुढाः कार्यालयेषु कार्यं कुर्वन्तः मार्गेषु चलन्तः वा अस्य ध्वनिं श्रुत्वा वार्तामग्नाः भवन्ति। अस्य सकारात्मकः प्रयोगः सर्वेषां कृते लाभप्रदः परन्तु नकारात्मकप्रयोगेण महती हानिः एव भविष्यति। एतत् नेत्रविकारस्य मनसः अशान्तेश्च कारणमपि भवितुं शक्नोति। अतः बुद्धिमद्भिः जनैः विज्ञानस्य सदुपयोगः एव करणीयः।

- I. एकपदेन उत्तरत- (केवलं प्रश्नद्वयम्) (1x2=2)
(i) इदं कस्य युगं वर्तते?
(ii) महत्त्वपूर्णः आविष्कारः कः?
(iii) कस्य सदुपयोगः करणीयः?
- II. पूर्णवाक्येन उत्तरत- (केवलं प्रश्नद्वयम्) (2x2=4)
(i) चलभाषियन्त्रस्य प्रयोगं के कुर्वन्ति?
(ii) जनाः कथं वार्तालापे लीनाः भवन्ति?
(iii) विज्ञानस्य सदुपयोगः कैः करणीयः?
- III. उपर्युक्त-अनुच्छेदस्य कृते समुचितं शीर्षकं लिखत। (1x1=1)
- IV. निर्देशानुसारम् उत्तरत- (केवलं प्रश्नत्रयम्) (1x3=3)
(i) 'महती हानिः' अत्र विशेष्यपदं किम्?
(ii) 'दुरुपयोगः' इति पदस्य किं विलोमपदम् अनुच्छेदे आगतम्?
(क) अनुपयोगः (ख) सदुपयोगः (ग) उपयोगः (घ) नियोगः
(iii) 'लीनाः' इति पदस्य किं पर्यायपदम् अनुच्छेदे प्रयुक्तम्?
(क) मग्नाः (ख) उद्विग्नाः (ग) विघ्नाः (घ) मनाः
(iv) 'वैज्ञानिकैः प्रतिदिनं.... क्रियन्ते' अत्र कर्तृपदम् किम्?
(क) जनैः (ख) दृश्यते (ग) वैज्ञानिकैः (घ) प्रतिदिनम्

'ख' खण्डः- रचनात्मक-कार्यम् - 15 अङ्काः

2. भवान् स्वास्तिकः अस्ति। अधः लिखिते पत्रे रिक्तस्थानानि मञ्जूषापदसहायतया पूरयित्वा पत्रं पुनः लिखत- (½×10=5)
प्रिय मित्र!

सप्रेम (i) _____!

गतमासे अहं (ii) _____ पित्रा च सह भ्रमणार्थं कश्मीरक्षेत्रम् गतवान्। (iii) _____ अद्भुतं सौन्दर्यं दृष्ट्वा
(iv) _____ प्रसन्नं जातम्। सुन्दरं पर्वतीयक्षेत्रं सुदीर्घाः वृक्षशृङ्खलाः नद्यः च मनोहराणि सन्ति। भगवतः (v) _____
क्षेत्रम् वर्तते, अतः देवभूमिः अपि (vi) _____। अहं पुनः एकवारं त्वया सह तं प्रदेशं (vii) _____ इच्छामि। आशासे
आवां (viii) _____ एव तत्र पर्वतानां मध्ये भविष्यावः। सर्वेभ्यः (ix) _____ कथनीयाः। शीघ्रं मेलिष्यावः।

तव (x) _____

स्वास्तिकः

मञ्जूषापदानि-

नमस्काराः, नमस्ते, मात्रा, गन्तुम्, शीघ्रम्, कथ्यते, तत्र, शिवस्य, मित्रम्, मनः

3. प्रदत्तमञ्जूषापदसहायतया चित्रम् आधृत्य पञ्चवाक्यानि संस्कृतेन लिखत-

(1×5=5)



मञ्जूषापदानि-

बालिकाः, वृक्षाः, प्रसन्नाः, पर्वताः, क्रीडन्ति, कन्दुकः, वातावरणम्, मनोहरम्, आकाशे, खगः, शोभन्ते, अस्ति, भ्रमन्ति, सन्ति, सूर्यः

अथवा

निम्नलिखितं विषयम् अधिकृत्य मञ्जूषापदसहायतया पञ्चसंस्कृतवाक्येषु एकम् अनुच्छेदं लिखत-

प्रातःकालीनभ्रमणम्

मञ्जूषापदानि-

सूर्योदयः, जनाः, बालाः, पक्षिणः, पशवः, वृक्षाः, अस्ति, कूजन्ति, क्रीडन्ति, विहरन्ति, गच्छन्ति, भ्रमन्ति, मनोहरः

4. केषाञ्चित् पञ्चहिन्दीवाक्यानां संस्कृतेन अनुवादं कुरुत-

(केवलं पञ्च)

(1×5=5)

- तुम दोनों घर जाकर पढ़ो।
- गङ्गा हिमालय से निकलती है।
- हम लोगों को गीत गाना चाहिए।
- वे दोनों काम करेंगे।
- वृक्ष पर फूल हैं।
- छात्र कक्षा में पढ़ रहे हैं।
- तुम गीता पढ़ते हो।

‘ग’ खण्डः - अनुप्रयुक्त-व्याकरणम् - 25 अङ्काः

5. रेखाङ्कितपदानि आधृत्य यथापेक्षितं सन्धिं विच्छेदं वा कृत्वा लिखत- (केवलं प्रश्नचतुष्टयम्)

(1×4=4)

- व्याघ्रः तत्+अग्रतः शीघ्रं नष्टः।
- वयसः+तु न किञ्चिदन्तरम्।
- किं नामधेया युवयोर्योर्ननी।
- मूर्खाश्च मूर्खैः सुधियः सुधीभिः।
- धिक्+माम् एवं भूतम्।

6. रेखाङ्कितपदानां समासं विग्रहं वा प्रदत्तविकल्पेभ्यः चित्वा लिखत-

(केवलं प्रश्नचतुष्टयम्)

(1×4=4)

- उद्यमसमः बन्धुः नास्ति।
(क) उद्यमः समः (ख) उद्यमेन समः (ग) उद्यमात् समः (घ) उद्यमे समः
- प्रथमः शत्रुः देहे स्थितः क्रोधः एव अस्ति।
(क) देहेस्थितः (ख) देहोस्थितः (ग) देहस्थितः (घ) देहास्थितः
- अस्ति देउलाख्यः ग्रामः।
(क) देउलः आख्या यस्य सः (ख) देउला आख्या (ग) देउला यः सः (घ) देउला एव आख्यः
- चक्रं महानगराणां मध्ये अनिशं चलति।
(क) महानगरमध्ये (ख) महनगरमध्ये (ग) मध्यमहानगरे (घ) मध्ये महानगरे
- लताः प्रस्तरतले पिष्टाः भवन्ति।
(क) प्रस्तरे तले (ख) प्रस्तराणां तले (ग) प्रस्तरं तले (घ) प्रस्तराय तले

7. अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रकृतिप्रत्ययौ संयोज्य विभज्य वा उचितम् उत्तरं विकल्पेभ्यः चित्वा लिखत-
(केवलं प्रश्नचतुष्टयम्) (1x4=4)

- (i) त्वं निर्झर-नदी-पयः पूरं ग्रामं पश्य।
(क) नद+ङीप् (ख) नदि+ङीप् (ग) नाद+ङीप् (घ) नदी+ङीप्
- (ii) भार्या बुद्धिमती आसीत्।
(क) बुद्धिमान्+ङीप् (ख) बुद्धिम+ती (ग) बुद्धिमत्+ङीप् (घ) बुद्धि+मती
- (iii) व्याघ्रमारी भयङ्करा आसीत्।
(क) भयङ्कर+टाप् (ख) भयङ्कारा+टाप् (ग) भयं+करा+टाप् (घ) भयङ्कर+ङीप्
- (iv) हरिद्वारम् एकं धर्म+ठक् नगरम् अस्ति।
(क) धार्मिकाः (ख) धार्मिकम् (ग) धार्मिकः (घ) धार्मिक्यः
- (v) जननी तुल्यवत्सला एव भवति।
(क) वत्य+टाप् (ख) वत्स्य+टाप् (ग) वत्सला+टाप् (घ) वत्सल+टाप्

8. अधोलिखितवाक्येषु वाच्यानुसारं रिक्तस्थानानि विकल्पेभ्यः उचितं पदं चित्वा पूरयत- (1x3=3)

- शिवानन्दः - हे रमे! त्वं कुत्र गच्छसि?
रमा - शिवानन्द! मया तु गृहं (i) _____।
(क) गच्छामि (ख) गम्यते (ग) गम्ये (घ) गच्छ्यते
- शिवानन्दः - त्वं कुत्र पठसि?
रमा - (ii) _____ गुरुकुले पठ्यते।
(क) अहम् (ख) मया (ग) त्वं (घ) वयम्
- शिवानन्दः - त्वं किं पठसि?
रमा - मया (iii) _____ पठ्यते।
(क) गीता (ख) गीते (ग) गीताः (घ) ग्रन्थाः

9. अधोलिखितवाक्येषु अङ्कानां स्थाने समयानुसारं सङ्ख्याशब्दान् संस्कृतेन लिखत- (1x4=4)

- (i) राजधानी-एक्सप्रेस प्रातः (7:00) -----वादने आगच्छति।
(ii) तत् यानं (7:15) -----वादने प्रस्थानं करोति।
(iii) (7:30) -----वादने 'राजनान्दगाँव' इति स्थानकं प्रापयति।
(iv) (7:45) -----वादने डोंगरगढ़क्षेत्रं गच्छति।

10. अधोलिखित-वाक्येषु रिक्तस्थानानि मञ्जूषाप्रदत्तैः उचितैः अव्ययपदैः पूरयित्वा लिखत- (केवलं प्रश्नत्रयम्) (1x3=3)

- (i) वर्षा भवति -----बहिः न गच्छ।
(ii) सिंहः -----गर्जति।
(iii) शिक्षकेण सह छात्रः -----गच्छति।
(iv) किमपि कार्यं -----न कुर्यात्।

मञ्जूषापदानि-

सहसा, इदानीम्, उच्चैः, अपि

11. अधोलिखितवाक्येषु रेखाङ्कित-पदम् अशुद्धम् अस्ति। प्रदत्तविकल्पेभ्यः उचितम् उत्तरं चित्वा अशुद्धपदं संशोध्य लिखत-
(केवलं प्रश्नत्रयम्) (1x3=3)

- (i) ते बालिकाः कुत्र गमिष्यन्ति।
(क) बालकाः (ख) बालिके (ग) बालकौ (घ) बाले
- (ii) यूयं व्यर्थं न वदावः।
(क) वदथः (ख) वदथ (ग) वदन्ति (घ) वदामः
- (iii) द्वे छात्रे अत्र पठन्ति।
(क) पठथः (ख) पठावः (ग) पठतः (घ) पठेत्
- (iv) त्वं हयः कुत्र गमिष्यसि।
(क) गमिष्यथ (ख) अगच्छः (ग) गच्छेत् (घ) गच्छति

12. अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नान् उत्तरत-

कश्चित् कृषकः बलीवर्दाभ्यां क्षेत्रकर्षणं कुर्वन्नासीत्। तयोः बलीवर्दयोः एकः शरीरेण दुर्बलः जवेन गन्तुमशक्तश्चासीत्। अतः कृषकः तं दुर्बलं वृषभं तोदनेन नुद्यमानः अवर्तत। सः ऋषभः हलमूढ्वा गन्तुमशक्तः क्षेत्रे पपात। क्रुद्धः कृषीबलः तमुत्थापयितुं बहुवारम् यत्नमकरोत्। तथापि वृषः नोत्थितः।

- | | | |
|------|---|---------|
| I. | एकपदेन उत्तरत- (केवलं प्रश्नद्वयम्) | (½x2=1) |
| | (i) कः क्षेत्रकर्षणं करोति स्म? | |
| | (ii) कृषकः काभ्यां क्षेत्रकर्षणं करोति स्म? | |
| | (iii) कः नोत्थितः? | |
| II. | पूर्णवाक्येन उत्तरत- (केवलं प्रश्नद्वयम्) | (1x2=2) |
| | (i) कृषकः कं नुद्यमानः अवर्तत? | |
| | (ii) कृषीबलः वृषभम् उत्थापयितुं किम् अकरोत्? | |
| | (iii) बलीवर्दयोः एकः कीदृशः आसीत्? | |
| III. | निर्देशानुसारम् उत्तरत - (केवलं प्रश्नद्वयम्) | (1x2=2) |
| | (i) ‘क्रुद्धः कृषीबलः’ अत्र विशेषणपदं किम्? | |
| | (ii) ‘सबलः’ इति पदस्य किं विलोमपदम् अनुच्छेदे प्रयुक्तम्? | |
| | (iii) ‘वृषः’ इति पदस्य किं पर्यायपदम् अनुच्छेदे आगतम्? | |

13. अधोलिखितं नाट्यांशं पठित्वा प्रदत्तप्रश्नान् उत्तरत-

व्याघ्रः - गच्छ गच्छ जम्बुक! त्वमपि किञ्चित् गूढप्रदेशम्। यतो व्याघ्रमारीति या शास्त्रे श्रूयते तथाहं हन्तुमारब्धः। परं गृहीतकरजीवितो नष्टः शीघ्रं तदग्रतः।
 शृगालः - व्याघ्र! त्वया महत्कौतुकम् आवेदितं यन्मानुषादपि बिभेषि?
 व्याघ्रः - प्रत्यक्षमेव मया सात्मपुत्रावेकैकशो मामतुं कलहायमानौ चपेटया प्रहरन्ती दृष्टा।

- | | | |
|------|--|---------|
| I. | एकपदेन उत्तरत- (केवलं प्रश्नद्वयम्) | (½x2=1) |
| | (i) ‘गच्छ, गच्छ जम्बुक!’ इति कः वदति? | |
| | (ii) कः मानुषादपि बिभेति? | |
| | (iii) व्याघ्रमारी कया प्रहरन्ती दृष्टा? | |
| II. | पूर्णवाक्येन उत्तरत- (केवलं प्रश्नद्वयम्) | (1x2=2) |
| | (i) शृगालः व्याघ्रं किं वदति? | |
| | (ii) व्याघ्रमारीति कुत्र श्रूयते? | |
| | (iii) व्याघ्रः कं गूढप्रदेशं गन्तुं कथयति? | |
| III. | निर्देशानुसारम् उत्तरत - (केवलं प्रश्नद्वयम्) | (1x2=2) |
| | (i) ‘गच्छ गच्छ जम्बुक!’ अत्र क्रियापदं किम्? | |
| | (ii) ‘अप्रत्यक्षम्’ इति पदस्य किं विलोमपदं नाट्यांशे प्रयुक्तम्? | |
| | (iii) ‘जम्बुकः’ इति पदस्य किं पर्यायपदं नाट्यांशे आगतम्? | |

14. अधोलिखितं पद्यांशं पठित्वा प्रश्नान् उत्तरत-

उदीरितोऽर्थः पशुनापि गृह्यते
 हयाश्च नागाश्च वहन्ति बोधिताः।
 अनुक्तमप्युहति पण्डितो जनः
 परेङ्गितज्ञानफला हि बुद्धयः ॥

- | | | |
|------|--|---------|
| I. | एकपदेन उत्तरत- (केवलं प्रश्नद्वयम्) | (½x2=1) |
| | (i) उदीरितः अर्थः केन गृह्यते? | |
| | (ii) अनुक्तमपि कीदृशः जनः ऊहति? | |
| | (iii) हयाश्च नागाश्च कथं वहन्ति? | |
| II. | पूर्णवाक्येन उत्तरत- (केवलं प्रश्नद्वयम्) | (1x2=2) |
| | (i) परेङ्गितज्ञानफलाः काः भवन्ति? | |
| | (ii) बोधिताः के के वहन्ति? | |
| | (iii) पण्डितः जनः किम् ऊहति? | |
| III. | निर्देशानुसारम् उत्तरत - (केवलं प्रश्नद्वयम्) | (1x2=2) |
| | (i) ‘मूर्खः’ इति पदस्य किं विलोमपदं पद्यांशे आगतम्? | |
| | (ii) ‘पण्डितः जनः’ अत्र विशेष्यपदं किम्? | |
| | (iii) ‘स्वीक्रियते’ इति पदस्य पर्यायपदं पद्यांशे किम्? | |

15. रेखाङ्कितपदानि आधृत्य प्रश्ननिर्माणं कुरुत- (केवलं प्रश्नचतुष्टयम्)

(1x4=4)

- (i) त्वं मानुषात् विभेषि।
- (ii) महानगरेषु वाहनानां पङ्क्तयः सन्ति।
- (iii) व्याघ्रं दृष्ट्वा शृगालः अवदत्।
- (iv) सुराधिपः ताम् अपृच्छत्।
- (v) बुद्धिमती पितृगृहं प्रति चलिता।

16. अधोलिखितस्य श्लोकस्य अन्वये मञ्जूषापदसहायतया रिक्तस्थानानि पूरयित्वा अन्वयं पुनः लिखत-

(1x4=4)

आलस्यं हि मनुष्याणां शरीरस्थो महान् रिपुः।
नास्त्युद्यमसमो बन्धुः कृत्वा यं नावसीदति॥

अन्वयः - मनुष्याणां (i) _____ महान् रिपुः (ii) _____ हि। उद्यमसमो (iii) _____ न अस्ति, यं (iv) _____ नरः न
अवसीदति।

मञ्जूषापदानि- कृत्वा, शरीरस्थः, बन्धुः, आलस्यम्

अथवा

• अधोलिखितस्य श्लोकस्य भावार्थे मञ्जूषापदसहायतया रिक्तस्थानानि पूरयित्वा भावार्थं पुनः लिखत-

सम्पत्तौ च विपत्तौ च महतामेकरूपता।
उदये सविता रक्तो रक्तश्चास्तमये तथा॥

भावार्थः : ये जनाः (i) _____ भवन्ति तेषां स्वभावे सम्पत्तौ च (ii) _____ च सदा एव एकरूपता भवति। यथा उदयकाले अपि
सूर्यः (iii) _____ भवति तथा (iv) _____ अपि रक्तः एव।

मञ्जूषापदानि- अस्तमये, महान्तः, विपत्तौ, रक्तः

17. अधोलिखितानि वाक्यानि घटनाक्रमानुसारेण लिखत-

(½x8=4)

- (i) तस्य भार्या बुद्धिमती आसीत्।
- (ii) तत्र राजसिंहो नाम राजपुत्रः वसति स्म।
- (iii) एकः देउलाख्यः ग्रामः अस्ति।
- (iv) बुद्धिमती पुत्रद्वयेन सह पितृगृहं गच्छति।
- (v) व्याघ्रः भयाकुलः ततः दूरं पलायते।
- (vi) बुद्धिमती पुत्रौ व्याघ्रभक्षणार्थं चपेटया मारयति।
- (vii) धूर्तः शृगालः व्याघ्रं पुनः व्याघ्रमार्याः समीपम् आनयति।
- (viii) मार्गे बुद्धिमती एकं व्याघ्रं पश्यति।

18. रेखाङ्कितपदानां प्रसङ्गानुसारं शुद्धम् अर्थं चित्वा लिखत- (केवलं प्रश्नत्रयम्)

(1x3=3)

- (i) क्रुद्धः कृषीबलः वृषभम् उत्थापयति।
(क) कृषकः (ख) ऋषभः (ग) इन्द्रः (घ) चन्द्रः
- (ii) आलस्यं महान् रिपुः अस्ति।
(क) वपुः (ख) शत्रुः (ग) मित्रम् (घ) गुरुः
- (iii) वसन्तस्य गुणं पिकः जानाति।
(क) काकः (ख) शुकः (ग) कोकिलः (घ) पशुः
- (iv) शुचि पर्यावरणम्।
(क) शुद्धम् (ख) अशुद्धम् (ग) अपूर्णम् (घ) अशुभम्

---00---



General Instructions :

- 01. This question paper contains two parts A & B.
- 02. Both part A and part B have internal choices.

PART - A

- 01. It consists of two sections I and II.
- 02. Section I has 16 questions of 1 mark each. Internal choice is provided in 5 questions.
- 03. Section II has 4 questions of Case Study. Each Case Study Question has 5 sub-parts. An examinee has to attempt any 4 out of 5 sub-parts.

PART - B

- 01. Question numbers 21 to 26 are very short answer type questions of 2 marks each.
- 02. Question numbers 27 to 33 are short answer type questions of 3 marks each.
- 03. Question numbers 34 to 36 are long answer type questions of 5 marks each.
- 04. Internal choice is provided in 2 questions of 2 marks, 2 questions of 3 marks and 1 question of 5 marks.

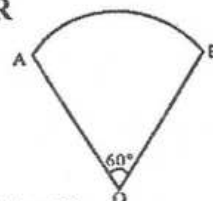
**PART - A
SECTION - I**

Section I has 16 questions of 1 mark each. Internal choice is provided in 5 questions.

- 01. What kind of a decimal expansion does an irrational number have?
 - 02. If the graph of a polynomial $y = p(x)$ does not cut the x -axis at any point, then how many real zeros does the polynomial have?
 - 03. Find the prime factorization of the denominator of the rational number equivalent to 1.033.
 - 04. If one zero of the polynomial $x^2 - 4x + k$ is 2, then find the value of k .
- OR**
- Find the quadratic polynomial, sum and product of whose zeros are -3 and 2 respectively.
- 05. When two dice are thrown simultaneously then what is the probability that the sum of the two numbers appearing on the top of the dice is 13?
- OR**
- When two dice are thrown simultaneously then what is the probability that the sum of the two numbers appearing on the top of the dice is less than or equal to 12?
- 06. A vertical stick 6 m long casts a shadow 4m long on the ground. Then what is the length of shadow of a pole 42 m high at the same point?
- OR**
- If the ratio of the corresponding sides of 2 similar triangles is 3:5, then what is the ratio of their corresponding attitudes?
- 07. What are the coordinates of point P on X-axis equidistant from the points $A(-1,0)$ and $B(5,0)$?
 - 08. If a number x is chosen at random from the numbers $-3, -2, -1, 0, 1, 2, 3$ then find the probability of $x^2 < 4$.
 - 09. If $x = 2 \sin^2\theta$ and $y = 2 \cos^2\theta + 1$ then find the value of $x + y$.
 - 10. If area of a circle is $49\pi \text{ cm}^2$, then what is the circumference? (Leave the answer in π)
 - 11. In a circle of diameter 42 cm, an arc subtends an angle of 60° at the centre, then find the length of the arc. (take $\pi = \frac{22}{7}$)

OR

In the given sector of a circle of radius 10.5 cm, find the length of arc AB. ($\pi = \frac{22}{7}$)



- 12. In ΔABC right angled at C, find the value of $\cos(A+B)$

OR

Find the acute angle θ satisfying $\sqrt{3} \sin\theta = \cos\theta$.

- 13. Write the number of solutions of the following pair of linear equations :

$$\begin{aligned} x + 2y - 8 &= 0 \\ 2x + 4y &= 16 \end{aligned}$$

14. If $\triangle ABC$ is similar to $\triangle DEF$ such that $2AB = DE$ and $BC = 8\text{cm}$, then find the length of EF .
15. Given the linear equation $2x + 3y - 8 = 0$, write another linear equation in two variables such that the graphs of resulting pair are coincident lines.
16. ABC is a triangle where coordinates of the vertices are $A(0, 2)$; $B(2, 0)$ and C is the point of intersection of the coordinate axes. Name the type of triangle formed.

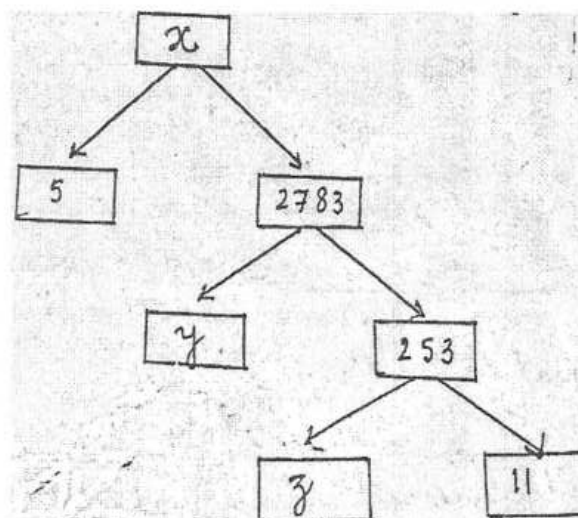
SECTION - II

Cast Study based questions are compulsory. Attempt any four sub-parts of each question. Each sub-part carries 1 mark.

17. CAST STUDY - 1

A Mathematics exhibition is being conducted in your school & one of your friends is making a model of a factor tree. He has some difficulty and asks for your help in completing a quiz for the audience.

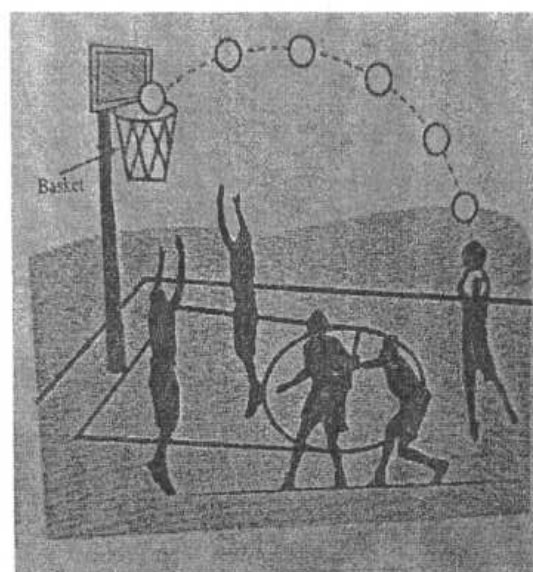
Observe the factor tree and answer the following:



- (i) What will be the value of x ?
 (a) 15005 (b) 13915 (c) 56920 (d) 17429
- (ii) What will be the value of y ?
 (a) 23 (b) 22 (c) 11 (d) 19
- (iii) What will be the value of z ?
 (a) 22 (b) 23 (c) 17 (d) 19
- (iv) According to fundamental theorem of Arithmetic 13915 is a
 (a) Composite number (b) Prime number
 (c) Neither prime nor composite (d) Even number
- (v) The prime factorization of 13915 is
 (a) $5 \times 11^3 \times 13^2$ (b) $5 \times 11^3 \times 23^2$ (c) $5 \times 11^2 \times 23$ (d) $5 \times 11^2 \times 13^2$

18. CAST STUDY - 2

Basketball is a popular game. Two teams of five players each, play this game on a rectangular court. Each team tries to score by tossing the ball through the opponent's goal, an elevated horizontal hoop and net called a basket. One player throws the ball for scoring along a path shown in figure.

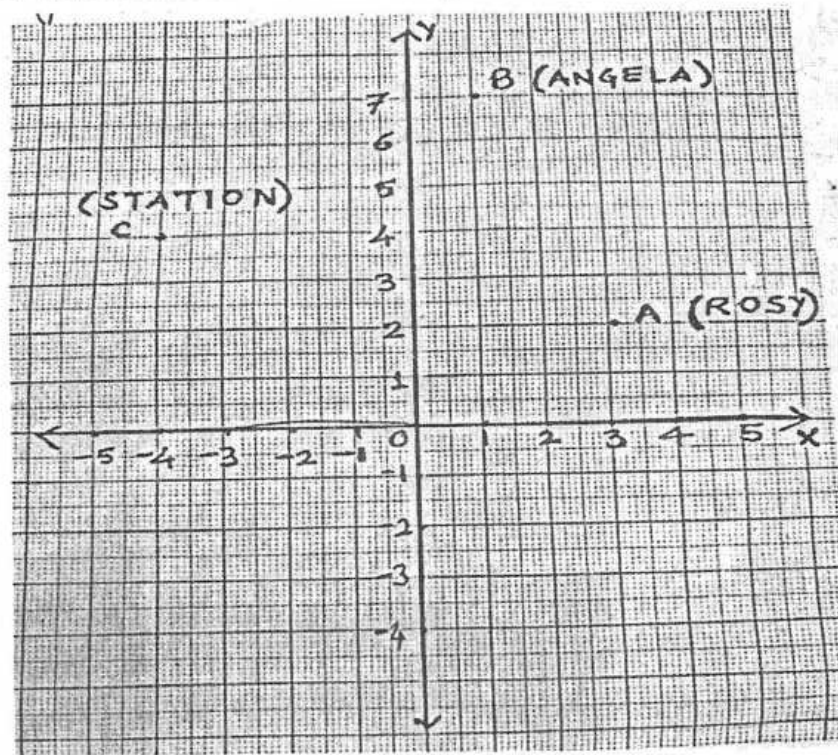


Read the above passage and answer the following questions:

- (i) Name the type of polynomial whose geometrical representation is a parabola.
 (a) Linear polynomial (b) Quadratic polynomial
 (c) Cubic polynomial (d) None of these
- (ii) If the path of basketball is represented by $x^2 - 2x - 3$ then its zeros are :
 (a) -1, 3 (b) -1, 2 (c) -2, 3 (d) -3, 2
- (iii) If the parabola is open downwards then the value of a in the quadratic polynomial $ax^2 + bx + c$ is
 (a) greater than zero (b) equal to zero (c) less than zero (d) none of these
- (iv) Which of the following represent the path of basketball?
 (a) $2x^3 - 6x^2 + 12x + 8$ (b) $3x + 5$
 (c) $-x^2 + 5x + 6$ (d) $x^2 + 5\sqrt{x} + 6$
- (v) Which of the given polynomials will describe the path of basketball with sum of zeros as 0 and product of zeros as -9 ?
 (a) $x^2 - x + 9$ (b) $x^2 - 9$ (c) $x^2 + 9$ (d) $x^2 + x + 9$

19. CASE STUDY – 3

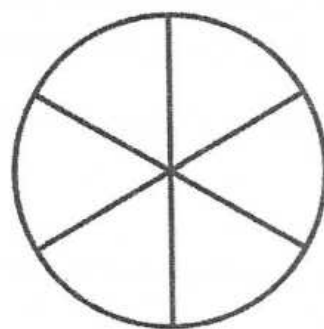
Two friends Rosy and Angela work in the same office in Chandigarh. In Diwali vacations both decided to go to their home towns represented by town A and town B respectively. Town A and town B are both connected by trains from same station C in Chadigarh as shown in figure.



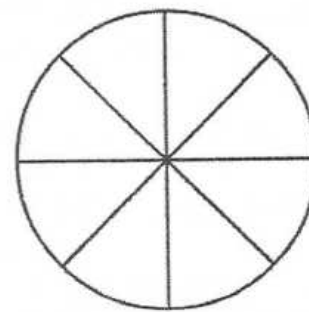
- (i) What is the location of town A?
 (a) (2,3) (b) (3,2) (c) (-3,-2) (d) (2,-3)
- (ii) What is the position of town B ?
 (a) (4,-4) (b) (2,4) (c) (4,2) (d) (1, 7)
- (iii) Who will travel more distance to reach their home town ?
 (a) Rosy (b) Angela (c) Both cover equal distances (d) Incomplete data
- (iv) What type of a triangle is formed if the points A, B and C are joined ?
 (a) Equilateral Δ (b) Isosceles Δ (c) Scalene Δ (d) None of these
- (v) Both the friends plan to meet at a place D, which is equidistant from A and B. Then point D lies on:
 (a) $4x - 10y + 37 = 0$ (b) $-4x - 10y + 37 = 0$
 (c) $4x + 10y + 37 = 0$ (d) $-4x + 10y + 37 = 0$

20. CASE STUDY – 4

On a birthday party two types of pizzas are served, both of equal diameters i.e. 12 inches. Type I pizza is cut into six equal slices and type II pizza is cut into eight equal slices as shown in figure.



TYPE I



TYPE II

Based on the above information, answer the following questions :

- (i) The area of one slice in type I pizza is :
 (a) 6π sq. inches (b) 8π sq. inches (c) 10π sq. inches (d) None of these
- (ii) The perimeter of each pizza slice of type I is :
 (a) $(\pi + 12)$ inches (b) $(\pi + 10)$ inches (c) $(2\pi + 10)$ inches (d) $(2\pi + 12)$ inches
- (iii) The ratio of area of each slice to the area of remaining pizza of type I is :
 (a) 5:1 (b) 1:5 (c) 2:5 (d) 5:3
- (iv) The ratio of areas of each slice of pizza of type I and type II is :
 (a) 3:4 (b) 5:3 (c) 4:3 (d) 2:5
- (v) If the same pizza is divided into equal sectors each of angle 36° , then how many slices of pizza can we have ?
 (a) 8 (b) 16 (c) 4 (d) 10

PART - B

(All questions are compulsory. In case of internal choices, attempt any one).

21. Find whether the following pair of linear equations in two variables is consistent or inconsistent.

$$\begin{aligned} x + 2y &= 4 \\ 3x - 6y &= 12 \end{aligned}$$
22. If $\tan(A + B) = \sqrt{3}$ and $\tan(A - B) = \frac{1}{\sqrt{3}}$, $0^\circ < A + B \leq 90^\circ$, $A > B$, find A and B .
OR
 Evaluate : $\frac{\cos 60^\circ}{\sec 60^\circ + \operatorname{cosec} 30^\circ}$
23. Solve : $\begin{aligned} 3x - 5y &= 4 \\ 9x - 2y &= 7 \end{aligned}$
24. Find the distance of $A(-5, 5)$ from the origin.
OR
 Find the coordinates of the mid-point of line segment joining the points $A(-5, 4)$ and $B(7, -8)$.
25. If $P(A)$ denotes the probability of an event A , then what is the minimum and maximum value of $P(A)$?
26. Without performing actual division, state what kind of decimal expansion does the number $\frac{320}{455}$ have ?
27. Prove that $3 + 2\sqrt{5}$ is irrational, given that $\sqrt{5}$ is an irrational number.
28. If α and β are the zeroes of the polynomial $x^2 - 4x + 3$, then form a quadratic polynomial whose zeroes are 3α and 3β .
OR
 Find the zeroes of the polynomial $x^2 - 3$ and verify the relationship between the zeroes and the coefficients.
29. Solve the given pair of linear equations in two variables graphically.

$$\begin{aligned} x + 3y &= 6 \\ 2x - 3y &= 12 \end{aligned}$$
- OR**
- Meena went to a bank to withdraw ₹ 2000. She asked the cashier to give her ₹ 50 and ₹ 100 notes only. Meena got 25 notes in all. Find how many notes of ₹ 50 and ₹ 100 she received?
30. Sides AB and BC and median AD of a ΔABC are respectively proportional to sides PQ and QR and median PM of ΔPQR . Then show that $\Delta ABC \sim \Delta PQR$.
31. One card is drawn from a well shuffled deck of 52 playing cards. Find the probability of getting:
 (i) a red face card (ii) either a spade or an ace (iii) a king of red colour
32. In what ratio does the y - axis divide the line segment joining the points $A(-4, 7)$ and $B(3, -7)$?
33. Prove that $\sec A (1 - \sin A)(\sec A + \tan A) = 1$
34. Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, then the other two sides are divided in the same ratio.
35. A chord of a circle of radius 15 cm subtends an angle of 60° at the centre. Find the area of the corresponding minor and major segments of the circle. (Use $\pi = 3.14$ and $\sqrt{3} = 1.73$)
36. Prove that : $\frac{\operatorname{cosec} \theta}{\operatorname{cosec} \theta - 1} + \frac{\operatorname{cosec} \theta}{\operatorname{cosec} \theta + 1} = 2 \sec^2 \theta$

OR

$$\frac{\cos A}{1 + \sin A} + \frac{1 + \sin A}{\cos A} = 2 \sec A$$



DELHI PUBLIC SCHOOL, BHILAI

Date : 08.09.2022

FIRST TERM EXAMINATION-2022

Time : 50 Minutes

Class : X

Subject : General Knowledge

Max. Marks : 50

Name of the student: _____

Class/Sec. _____ Roll No. _____

Invigilator's Signature _____

Marks obtained : ____/50

GENERAL INSTRUCTIONS:

- (i) Answer all questions.
- (ii) Each correct answer carries 1 mark.
- (iii) Write the correct option no in the appropriate square.

- 1) The value of acceleration due to gravity is:
 - (A) Least on equator
 - (B) Least on poles
 - (C) Same on equator & poles
 - (D) increases from pole to equator
- 2) The numerical ratio of displacement to distance covered by a moving object is :
 - (A) Always < 1
 - (B) Always = 1
 - (C) Always > 1
 - (D) = or < 1
- 3) According to third law of motion, action and reaction:
 - (A) Always act on the same body
 - (B) Always act on different bodies in opposite direction
 - (C) Have same magnitude and direction
 - (D) Act on any one of the body at normal to each other
- 4) The S.I. unit of retardation is :
 - (A) ms⁻¹
 - (B) ms⁻²
 - (C) ms²
 - (D) m
- 5) _____ is located behind a convex mirror:
 - (A) The focal point
 - (B) a-ray
 - (C) A real image
 - (D) The object
- 6) When white light passes through the prism, colour which deviates the least is:
 - (A) Red
 - (B) Blue
 - (C) Violet
 - (D) Green
- 7) Two charged bodies having equal potential are connected through a conducting wire. In this case
 - (A) Current will flow
 - (B) Not flow
 - (C) Can't say
 - (D) Current will flow if a resistance is connected
- 8) What will happen on putting dilute HCl on iron powder?
 - (A) Hydrogen gas and FeCl₂ will form
 - (B) Chlorine gas and FeCl₂ will form
 - (C) FeCl₂ and H₂O will form
 - (D) Will be no reaction.
- 9) The number of covalent bonds in ethane are:
 - (A) 6
 - (B) 7
 - (C) 8
 - (D) 9
- 10) If electronic configuration of an atom is 2,8,7, then atomic number of the atom will be:
 - (A) 15
 - (B) 16
 - (C) 17
 - (D) 18
- 11) Which functional group is present in Butanone
 - (A) C O H O
 - (B) C H O
 - (C) C O
 - (D) C N
- 12) Which will have electronic configuration 2,8,2?
 - (A) Na
 - (B) Mg
 - (C) Al
 - (D) Si
- 13) Which element have two shells and both these shells are fulfilled with electrons
 - (A) S
 - (B) Ne
 - (C) N
 - (D) He
- 14) Which among the following is/are saturated compound?
 - (A) CH₄
 - (B) C₃H₈
 - (C) C₅H₁₂
 - (D) All the above
- 15) Which of the following is not a divisional stage-
 - (A) Telophase
 - (B) Prophase
 - (C) Metaphase
 - (D) Interphase
- 16) Which of the following plant tip has Queiescent centre –
 - (A) Stem
 - (B) Root
 - (C) Leaf
 - (D) Sepal
- 17) Which of the following is a plant Hormone
 - (A) Insulin
 - (B) Thyroxin
 - (C) Cytokinin
 - (D) Oestrogen
- 18) Ribosomes are granules formed of-
 - (A) Only m-RNA
 - (B) Only Proteins
 - (C) r RNA + Proteins
 - (D) Only DNA
- 19) The Anther contains –
 - (A) Sepals
 - (B) Ovules
 - (C) Pistil
 - (D) Pollen-grains
- 20) Cell Organelles essential for photorespiration is-
 - (A) Ribosome
 - (B) Dictyosome
 - (C) Peroxi some
 - (D) Glyoxisome
- 21) Pollination in Maize held by –
 - (A) Insect
 - (B) Water
 - (C) Air
 - (D) Animal



GENERAL INSTRUCTIONS:

- This question paper contains three sections A, B and C. You have to solve all three sections.
- All questions are compulsory. However internal choices have been given in some questions. You have to solve any one of them.
- One-mark question to be answered in one word or one sentence.
- Two and three-marks questions are short answer questions.
- Five marks questions are long answer questions.
- For Assertion and Reasoning questions following are the options----
 - (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 – A : PHYSICS (27 MARKS)

1. Read the following paragraph carefully and answer any four questions from 1(i) to 1(v). (1x4=4)

Light seems to travel along straight-line path in a transparent medium; but when light enters obliquely from one transparent medium to another, some changes are observed. This is because, different media have different optical densities. The extent of the change in direction of light that takes place when it enters obliquely in a given pair of media, is expressed in terms of a 'constant'. Light travels fastest in vacuum. Several phenomena are observed due to reflection, refraction, dispersion and scattering of light in various media.

- (i) Name the constant mentioned in the paragraph and express it in terms of velocity of light.
- (ii) Draw a ray diagram to show path of light when it travels from diamond to glass.
- (iii) State an example of dispersion of light occurring in nature.
- (iv) What happens when a light ray is incident normally on an interface between two media of different optical densities. Draw a ray diagram to justify your answer.
- (v) What are the factors on which scattering of light depends?

2. Assertion – Reason Type Question (1)

Assertion : Lens of eye has variable focal length.

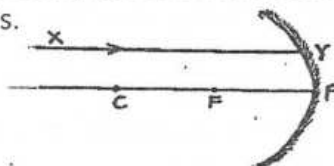
Reason : Curvature of eye lens is adjusted by ciliary muscles which control the thickness of eye lens as per need.

- 3. (a) What will be the colour of sky in absence of atmosphere and why? Explain briefly. (3)
- (b) Stars appear to be at higher position as compared to their actual position, why? Explain.

OR

What is least distance of distinct vision for normal eye? Does the above distance increase or decrease for long sighted eye? Give reason for your answer. Also mention the nature of corrective lens used in case of short-sighted eye.

- 4. What is meant by recombination of spectrum? How can it be attained using two prisms? Explain using suitable ray diagram. (3)
- 5. A divergent lens has a focal length of 30 cm. At what distance should an object of height 5 cm be placed from optical centre so that its image is formed 15 cm away from lens? Also find size of image. Draw a ray diagram to show formation of image in this case. (3)
- 6. A ray of light XY is incident on a mirror as shown in figure. The angle of incidence for this ray is the angle between the ray and the line joining two other points in the figure. Name these two points and give name of the line obtained by joining them. Draw the path of ray XY after reflection. Also write the relationship between distances PC and PF using their respective symbols. (3)



- 7. (a) Explain the reason for the following and draw the relevant diagrams in each case. (5)
 - (i) Stars twinkle in the night sky.
 - (ii) Sun appears two minutes after the actual sunset.
- (b) The far point of myopic eye is 150 cm in front of the eye. Calculate the focal length and power of a lens required to enable him to see distant objects clearly.

OR

- (a) Explain the meaning of presbyopia and mention the way of correcting it.
- (b) Size of image of an object by mirror having a focal length of 20 cm is observed to be reduced to one third of its size. At what distance the object has been placed from mirror? What is the nature of image and type of mirror?

8. (a) Define the following terms— (5)
(i) Lateral displacement (ii) Magnification (iii) Angle of deviation
(b) Refractive index of diamond with respect to glass is 1.6 and absolute refractive index of glass is 1.5. Find out the absolute refractive index of diamond.

SECTION – B : CHEMISTRY (26 MARKS)

9. What happens when Copper rod is dipped in iron sulphate solution ? (1)
(a) Copper displaces iron (b) Blue colour of copper sulphate solution is obtained
(c) No reaction takes place (d) Reaction is exothermic
10. $\text{CuO} + [\text{X}] \rightarrow \text{CuSO}_4 + \text{H}_2\text{O}$. Here [X] is (1)
(a) CuSO_4 (b) HCl (c) H_2SO_4 (d) HNO_3
11. Example of an amphoteric oxide is – (1)
(a) sodium oxide (b) potassium oxide (c) Aluminium oxide (d) Magnesium oxide
12. Which of the following metals liberate hydrogen gas with 5% Nitric acid? (1)
(a) Copper and Tin (b) Zinc and Lead (c) Sodium and Potassium (d) Magnesium and Manganese
13. NH_3 does not contain hydroxyl group, then why it is a base? (1)
14. Aluminium is a reactive metal, yet it is used to make utensils for cooking. Why? (1)
15. **Assertion (A)** : Gas bubbles are observed when sodium Carbonate is added to dilute HCl . (1)
Reason (R) : Carbon dioxide is given off in the reaction.
16. What type of chemical reaction takes place when : (3)
(a) Limestone is heated (b) Electric current is passed through water
(c) Exposure of silver chloride to sunlight
- OR
- 2g of ferrous sulphate crystals are heated in a boiling tube.
(a) State the colour of ferrous sulphate crystals before heating and after heating.
(b) Name the gases produced during heating.
(c) Write balanced chemical equation for the reaction.
17. (a) Why is electrolysis of brine called Chlor-alkali process ? Write chemical equation involved in this process. (3)
(b) Why CH_3COOH is considered a weak acid whereas HCl is considered as a strong acid?
18. Give reason for the following : (3)
(a) Gold and Platinum are used in jewellery. (b) Copper cannot displace hydrogen from dilute acids
(c) Sodium and potassium are stored in kerosene.
19. (a) Write chemical name and chemical formula of Bleaching powder. How is bleaching powder prepared? (5)
(b) The pH of a salt used to make tasty and crispy pakoras is 14. Identify the salt and write a chemical equation for its formation.
- OR
- (a) What happens when : (i) Zinc reacts with NaOH (ii) Zinc reacts with HCl .
(b) Name the acid and base would be used to prepare Potassium sulphate and Ammonium Chloride.
(c) Arrange the pH values of 0, 2, 4 and 6 in the increasing value of $\text{H}^+(\text{aq})$ ion concentration.
20. On heating lead nitrate in a boiling tube, lead oxide, oxygen gas and a brown gas 'X' is formed. (5)
(a) Write balanced chemical equation for the reaction.
(b) Identify brown gas 'X' evolved.
(c) What type of reaction is this ?
(d) What could be the pH range of aqueous solution of a gas 'X'.
(e) Name the insoluble compound formed by the reaction of lead nitrate and potassium iodide in aqueous medium.

SECTION – C : BIOLOGY (27 MARKS)

21. Read the following paragraph and answer any 4 sub parts. (4)

'Reflex arcs have evolved in animals because the thinking process of the brain is not fast enough. In fact many animals have little or none of the complex neuron network needed for thinking, so it is quite likely that reflex arcs have evolved as efficient ways of functioning in the absence of true thought processes. However, even after complex neuron networks have come into existence, reflex arcs continue to be more efficient for quick responses.'

- (a) What is reflex arc?
 - (b) Draw a flow chart showing sequence of events which occur if you accidentally step over a thorn.
 - (c) How are involuntary actions different from reflex action?
 - (d) Name the two components of central Nervous System in human beings.
 - (e) Differentiate between Sensory Neurons and Motor Neurons.
22. Brain and Spinal Cord are two vital organs of our body. How is our body designed to protect them? (1)
 OR
 Name the sensory receptors found in nose and tongue.
23. **Assertion (A)** : Excretion is a biological process by which harmful wastes are removed from an organisms body.
Reason (R) : The mode of excretion is completely same in both unicellular and multi cellular organisms. (1)
24. The process of conversion of glucose into pyruvic acid occurs in : (1)
 (a) mitochondria (b) cytoplasm (c) outside the cell (d) chloroplast
25. Proteins \xrightarrow{A} Poptones (1)
 Identify the enzyme A involved in the above reaction
 (a) Salivary analyse (b) bile juice (c) pepsin (d) lipase
26. (a) Name the components of transport system in highly organised plants. Briefly explain their role. (3)
 (b) What are the methods used by plants to get rid of excretory products. (2 points)
27. (a) Draw a neat and labelled diagram of a nephron (4 labelling) (3)
 (b) Where are nephron present and what is their function.
- 28 (a) How are the lungs designed in human beings to maximise the area for the exchange of gases. (2 points) (3)
 (b) Give reason - (i) Fish die when taken out of water.
 (ii) Rings of cartilage are present in trachea.
 OR
 (a) Name the following –
 (i) Organ which stores bile (ii) organ which produces bile.
 (b) Name any two enzymes present in pancreatic juice, state their functions also.
 (c) What is peristaltic movement?
29. (a) Draw a sectional view of human heart and label the following – (5)
 (i) All Blood Vessels
 (ii) Oxygenated and deoxygenated Chamber
 (iii) With arrows show the direction of movement of blood.
 (d) What is 'Double Circulation'?
- OR
- (a) Draw a labelled diagram of human brain and mention the functions for the following :
 (i) Medulla oblongata (ii) Cerebellum
- (b) Name the components of peripheral Nervous System, what is its significance ?
30. (a) Explain the steps involved in Photosynthesis. (5)
 (b) 'Mucus is secreted along with HCl in the Stomach', why ?
 (c) What is the main difference between nutrition in plants and animals?



General Instruction :

- Question paper comprises 3 sections – A, B and C. There are 33 questions in the question paper. All questions are compulsory.
Section A is History and Civics of 40 marks.
Section B is Geography of 20 marks.
Section C is Economics of 20 marks.
- Objective type questions should be answered as directed.
- Answer to 3-mark questions should not exceed 80 words each.
- Answer to 5-mark questions should not exceed 120 words each.
- Source based questions should be answered as directed.
- Map work should be done as directed in question.

SECTION – A : HISTORY & CIVICS (40 Marks)

01. Who was forced to flee France in 1848? (1)
(a) Louis XVI (b) Louis XVIII (c) Louis Philippe (d) None of these
02. Who from among the following advocated freedom of markets and abolition of restrictions on goods and capital? (1)
(a) Radicals (b) Conservatives (c) Liberals (d) All of these
03. What from among the following best describes Satyagraha? (1)
(a) Pure soul force (b) Pure soul mate (c) Pure soul spirit (d) None of these
04. Which European country amended its Constitution four times between 1970 and 1993? (1)
05. 22 languages have been scheduled in which schedule of our Constitution? (1)
- OR**
- Which language in India was to stop in 1965 for official purposes?
06. What do you mean by the term Patriarchy? (1)
- OR**
- What do you mean by the term Feminist?
07. The Frankfurt Parliament was the initial step towards the German Unification. Discuss. (3)
08. What was Khilafat issue? Why did Gandhiji make Khilafat movement a part of the Non Cooperation Movement? (2+1=3)
- OR**
- Who was Alluri Sitarama Raju? How did he lead the Gudem Hills rebels? (1+2=3)
09. Power sharing is the very spirit of democracy. Justify. (3)
- OR**
- Caste alone does not determine the election results in India. Justify.
10. The identity of the nation, as you know, is most often symbolised in a figure or image. This helps create an image, with which people can identify the nation. It was in the twentieth century, with the growth of nationalism, that the identity of India came to be visually associated with the image of Bharat Mata. The image was first created by Bankim Chandra Chattopadhyay. In the 1870s he wrote 'Vande Mataram' as a hymn to the motherland. Later, it was included in his novel Anandamath and widely sung during the Swadeshi movement in Bengal. Moved by the Swadeshi movement, Abanindranath Tagore painted his famous image of Bharat Mata. In this painting, Bharat Mata is portrayed as an ascetic figure; she is calm, composed, divine and spiritual. In subsequent years, the image of Bharat Mata acquired many different forms, as it circulated in popular prints, and was painted by different artists. Devotion to this mother figure came to be seen as evidence of one's nationalism.
- Answer the following MCQs by choosing the most appropriate option. (1x4=4)**
- 10.1 In which century did the identity of India associate with the image of Bharat Mata?
(a) 18th (b) 19th (c) 20th (d) None of these
- 10.2 Who first created the image of Bharat Mata?
(a) R N Tagore (b) Bankim Chandra (c) Mahatma Gandhi (d) None of these
- 10.3 Which novel of Bankim Chandra contains 'Vande Mataram'?
(a) Durgesh Nandini (b) Kapal Kundala (c) Anandamath (d) None of these
- 10.4 Moved by which movement did Abanindranath Tagore paint the image of Bharat Mata?
(a) Swadeshi Movement (b) Non Cooperation Movement
(c) Civil Disobedience Movement (d) None of these

11. A major step towards decentralisation was taken in 1992. The Constitution was amended to make the third-tier of democracy more powerful and effective. Now it is constitutionally mandatory to hold regular elections to local government bodies. Seats are reserved in the elected bodies and the executive heads of these institutions for the Scheduled Castes, Scheduled Tribes and Other Backward Classes. At least one-third of all positions are reserved for women. An independent institution called the State Election Commission has been created in each State to conduct panchayat and municipal elections. The State governments are required to share some powers and revenue with local government bodies. The nature of sharing varies from State to State. Rural local government is popularly known by the name panchayati raj. Each village, or a group of villages in some States, has a gram panchayat. This is a council consisting of several ward members, often called panch, and a president or sarpanch.

Answer the following MCQs by choosing the most appropriate option.

(1x4=4)

11.1 When did India take a major step towards decentralization?

- (a) 1982 (b) 1992 (c) 2002 (d) None of these

11.2 What part of seats is reserved for women in the Local Bodies?

- (a) 1/3 (b) 1/2 (c) 1/4 (d) None of these

11.3 Which constitutional body conducts the Local Body elections?

- (a) Election Commission of India (b) The Governor
(c) The State Election Commission (d) None of these

11.4 Which government is required to share some powers and revenue with the Local Government?

- (a) The Central Government (b) The State Government
(c) The District Government (d) None of these

12. Explain the Greek War of Independence.

(5)

OR

Explain the Dandi March and the breaking of the Salt Law.

13. Describe the provisions that make India a federal state.

(5)

14. Define communal politics. What different forms does communalism take in politics?

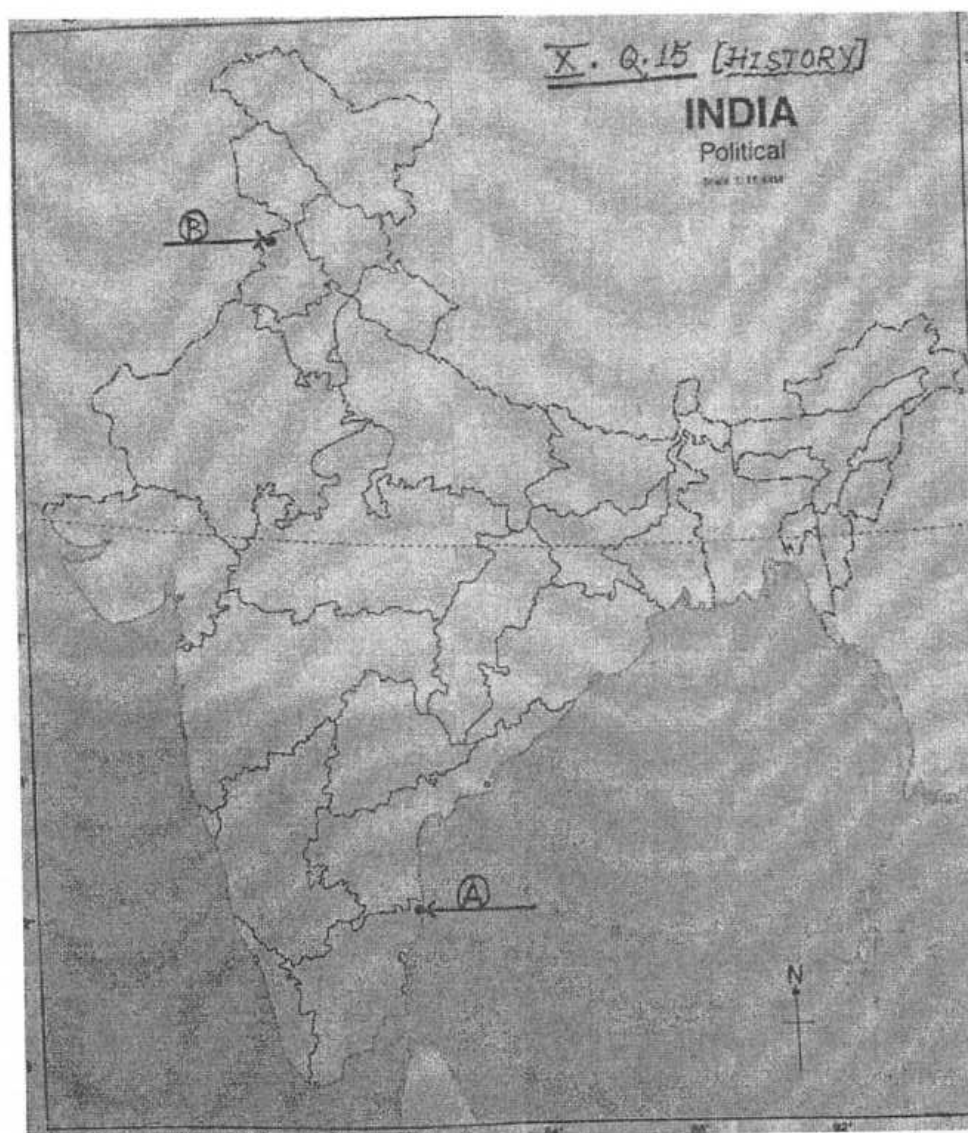
(1+4=5)

15. Two places A and B have been marked on the given outline map of India. Identify them and write their correct names on the answer sheet.

(1x2=2)

A. The Congress session of 1927

B. The Jallianwala Bagh Massacre



SECTION – B : GEOGRAPHY (20 Marks)

Answer the following questions.

16. The Indian Wildlife Protection Act was implemented in
(a) 1972 (b) 1974 (c) 1975 (d) 1980 (1)
17. Mention any two reasons of depletion of biodiversity in India. (½ + ½ =1)
18. Which of the following methods has contributed significantly in the stabilisation of sanddunes and desert in Western India?
(a) Strip Cropping (b) Terrace Farming (c) Contour Ploughing (d) Shelter belts (1)
19. Which of the following trees are worshipped by the Mundas and the Santhals of Chota Nagpur region? (1)
(a) Peepal and Mango (b) Kadamb and Mahua (c) Tamarind and Neem (d) Mango and Neem
20. In between the rabi and kharif seasons, there is a short season during the summer months known as _____ season. (1)

OR

Cotton requires _____ frost free days for its growth.

21. Write any three features of Black Soil. (1+1+1=3)
22. Read the text below and answer the following questions. (1x4=4)

Given the abundance and renewability of water, it is difficult to imagine that we may suffer from water scarcity. Overexploitation and mismanagement of water resources will impoverish this resource and cause ecological crisis that may have profound impact on our lives. Multi-purpose projects, launched after independence with their integrated water resources management approach, were thought of as the vehicle that would lead the nation to development and progress. Jawaharlal Nehru proudly proclaimed the dams as the “temples of modern India”, the reason being it would integrate development of agriculture and the village economy with rapid industrialization and growth of urban economy.

In recent years multi-purpose projects and large dams have come under great scrutiny and opposition for a variety of reasons.

- 22.1 Who amongst the following proclaimed the dams as the “temples of modern India”?
(a) Mahatma Gandhi (b) Medha Patekar (c) Jawaharlal Nehru (d) Indira Gandhi
- 22.2 Which of the following is the reason for which dams have come under great scrutiny in recent years?
(a) Large scale displacement of local communities. (b) Have triggered floods.
(c) Both a and b. (d) None of the above.
- 22.3 Which of the following are the reasons of water scarcity in India?
(a) Drip irrigation and Rainwater harvesting.
(b) Over exploitation and mismanagement of water resources.
(c) Multi-purpose river projects.
(d) None of these
- 22.4 What were the aims and purposes of launching multipurpose river projects after independence?
(a) integrated water resources management. (b) Not to disturb soil and vegetation.
(c) To control water pollution (d) None of these.
23. Enlist the various institutional and technological reform programmes introduced by the Indian Government in the interest of the farmers. (1+1+1+1+1=5)

OR

Write any five features of Primitive Subsistence farming.

24. On the given map of India locate and label any three of the following : (1x3=3)
(a) Area under Arid soil (b) Sardar Sarovar dam (c) Largest Tea producing state
(d) Bhakra Nangal dam (e) Largest sugarcane producing state

SECTION – C : ECONOMICS (20 Marks)

25. **Assertion (A)** : The developmental goals that people have are not only about better income but also about other important things in life.
Reason (R) : A safe and secure environment may allow more women to take up a variety of jobs or run a business.
- 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 (1)

26. What is aim of implementing Mahatma Gandhi National Rural Employment Guarantee Act, 2005? (1)

OR

Name the sector in which private individuals own most of the assets and provide all the services. State another feature of the sector mentioned above.

27. A wheat farmer wants rice but the rice farmer doesn't want wheat, he is in need of sugar. Identify the problem and suggest a solution for the same. (1)
28. Sanjana is a 25 years old woman, her height is 1.45m and weight is 30kg. Calculate the BMI and comment on her nutritional status. (1)
29. Why the deposits with the bank are known as "demand deposits"? (1)
30. Explain average income and state one advantage and one limitation of using average income to compare countries. (3)

OR

" For development, people look at the mix of goals." Explain the goals discussed in the statement with the help of one example each.

31. How do banks mediate between those who have surplus money and those who need money? What is the main source of income of the banks? (3)
32. The table below shows the estimated number of workers in India in the organised and unorganised sector. Read the table carefully and answer the questions given below:

SECTOR	ORGANISED	UNORGANISED	TOTAL
Primary	2		242
Secondary	9	54	63
Tertiary	17	76	93
Total	28		
Percentage			100%

1. Calculate the percentage of tertiary sector workers employed in unorganised sector. (1)
 2. Write any two points of distinction between organised and unorganised sector. (2)
 3. Mention any two ways in which we can protect the workers in unorganised sector (1)
33. Define GDP. Out of the three sectors, which sector has contributed maximum to the GDP? Mention any three reasons of that sector's contribution to GDP. (1+1+3=5)

OR

Write the characteristics of public sector with examples and mention the importance of public sector in the economy. (3+2=5)

❧❧❧ ❧❧❧



DELHI PUBLIC SCHOOL, BHILAI

Date : 08.09.2022

FIRST TERM EXAMINATION-2022

Time : 50 Minutes

Class : X

Subject : General Knowledge

Max. Marks : 50

Name of the student: _____

Class/Sec. _____ Roll No. _____

Invigilator's Signature _____

Marks obtained : ____/50

GENERAL INSTRUCTIONS:

- (i) Answer all questions.
- (ii) Each correct answer carries 1 mark.
- (iii) Write the correct option no in the appropriate square.

- 1) The value of acceleration due to gravity is:
 - (A) Least on equator
 - (B) Least on poles
 - (C) Same on equator & poles
 - (D) increases from pole to equator
- 2) The numerical ratio of displacement to distance covered by a moving object is :
 - (A) Always < 1
 - (B) Always = 1
 - (C) Always > 1
 - (D) = or < 1
- 3) According to third law of motion, action and reaction:
 - (A) Always act on the same body
 - (B) Always act on different bodies in opposite direction
 - (C) Have same magnitude and direction
 - (D) Act on any one of the body at normal to each other
- 4) The S.I. unit of retardation is :
 - (A) ms⁻¹
 - (B) ms⁻²
 - (C) ms²
 - (D) m
- 5) _____ is located behind a convex mirror:
 - (A) The focal point
 - (B) a-ray
 - (C) A real image
 - (D) The object
- 6) When white light passes through the prism, colour which deviates the least is:
 - (A) Red
 - (B) Blue
 - (C) Violet
 - (D) Green
- 7) Two charged bodies having equal potential are connected through a conducting wire. In this case
 - (A) Current will flow
 - (B) Not flow
 - (C) Can't say
 - (D) Current will flow if a resistance is connected
- 8) What will happen on putting dilute HCl on iron powder?
 - (A) Hydrogen gas and FeCl₂ will form
 - (B) Chlorine gas and FeCl₂ will form
 - (C) FeCl₂ and H₂O will form
 - (D) Will be no reaction.
- 9) The number of covalent bonds in ethane are:
 - (A) 6
 - (B) 7
 - (C) 8
 - (D) 9
- 10) If electronic configuration of an atom is 2,8,7, then atomic number of the atom will be:
 - (A) 15
 - (B) 16
 - (C) 17
 - (D) 18
- 11) Which functional group is present in Butanone
 - (A) C O H O
 - (B) C H O
 - (C) C O
 - (D) C N
- 12) Which will have electronic configuration 2,8,2?
 - (A) Na
 - (B) Mg
 - (C) Al
 - (D) Si
- 13) Which element have two shells and both these shells are fulfilled with electrons
 - (A) S
 - (B) Ne
 - (C) N
 - (D) He
- 14) Which among the following is/are saturated compound?
 - (A) CH₄
 - (B) C₃H₈
 - (C) C₅H₁₂
 - (D) All the above
- 15) Which of the following is not a divisional stage-
 - (A) Telophase
 - (B) Prophase
 - (C) Metaphase
 - (D) Interphase
- 16) Which of the following plant tip has Queiescent centre -
 - (A) Stem
 - (B) Root
 - (C) Leaf
 - (D) Sepal
- 17) Which of the following is a plant Hormone
 - (A) Insulin
 - (B) Thyroxin
 - (C) Cytokinin
 - (D) Oestrogen
- 18) Ribosomes are granules formed of-
 - (A) Only m-RNA
 - (B) Only Proteins
 - (C) r RNA + Proteins
 - (D) Only DNA
- 19) The Anther contains -
 - (A) Sepals
 - (B) Ovules
 - (C) Pistil
 - (D) Pollen-grains
- 20) Cell Organelles essential for photorespiration is-
 - (A) Ribosome
 - (B) Dictyosome
 - (C) Peroxi somes
 - (D) Glyoxisome
- 21) Pollination in Maize held by -
 - (A) Insect
 - (B) Water
 - (C) Air
 - (D) Animal



General Instructions:

This question paper is divided into three sections namely A, B and C.

Please read instructions in each section carefully.

Section A is of 24 marks. Each question is of 1 mark.

Section B is of 14 marks. Each question is of 2 marks.

Section C is of 12 marks. Each question is of 4 marks.

All questions of a particular section must be attempted in the correct order.

SECTION – A

I. Answer any 4 questions out given 6 questions.

(1x4=4)

- refers to explaining things in a brief yet comprehensive manner.
a. Conciseness b. Clarity c. Concreteness d. Courteous
- The barriers occur due to some inherent traits or the frame of mind of the communicator.
a. Internal b. Linguistic c. External d. None of the above
- feedback suggests a need for change in the mode of communication.
a. Positive b. Negative c. Mechanical d. Clear
- A..... is a group of words that forms a unit within a sentence but is incomplete independently.
a. Subject b. Phrase c. Noun d. Article
- One must avoid using..... terminology during communication.
a. Complicated b. Ordinary c. Simple d. Common
- Which of the following is not a form of non-verbal communication?
a. Facial expressions b. Hand gestures c. Spoken Words d. None of these

II. Answer any 20 questions out given 24 questions.

(1x20=20)

- Which of the following technology is predominantly used by Amazon Alexa?
a. Image Recognition b. Speech Recognition c. Robotics d. Neural Stems
- With which of the following activity does the AI project cycle start?
a. Brainstorming b. Resource allocation c. Problem defining d. Goal Setting
- What is the data type of print(type(25))?
a. float b. int c. string d. integer
- List in Python is
a. Changeable b. unordered c. doesn't allow duplicate d. All of these
-are used for developing computer programs, which learns from data.
a. Neural Networks b. Data Centres c. Data Mining d. Artificial Systems
- is the subset of Machine Learning.
a. Deep Learning b. Artificial Learning c. Semi-Bio Learning d. Redundant Learning
- Name the developer of python.
a. Dennis Ritchie b. Bjarne Stroustrup c. James Gosling d. Guido Van Rossum
- Key word in python is a.
a. container for storing data b. reserved word c. small program d. symbol of computation
- Variable in python is.
a. container for storing data b. reserved word
c. small program d. symbol of computation
- During the early period, the research in AI systems was restricted to.....
a. Solving problems b. Duplication the functioning of human mind
c. Winning computer games d. Augmenting defense capabilities
- In, we provide the AI model for the correct answers ahead of time.
a. Transfer learning b. Unsupervised learning c. Reinforced learning d. Supervised learning
- Which of the following is NOT one of the three domains of Artificial Intelligence?
a. Data b. Smart decision making c. Computer vision d. Natural language processing
- Which of the following is NOT a part of the Natural Language Generation?
a. Text planning b. Text analysing c. Sentence planning d. Text realization

14. Which of the following does not use environment perception?
 - a. Security systems
 - b. Drone surveillance systems
 - c. Smart Vehicles
 - d. Smart medical databases
15. Define Machine Learning.
 - a) Machine learning is the study of computer algorithms that improve automatically through experience.
 - b) Refers to any technique that enables computers to mimic human intelligence.
 - c) Machine learning refers to computer systems (both machines and software) enables machines to perform tasks for which it is programmed.
 - d) Machine Learning refers to projects that allow the machine to work on a particular logic.
16. The decision to purchase the cheapest computer in the shop will be a decision.
 - a. Structured
 - b. Unstructured
 - c. Semi-Structured
 - d. Demi-structured
17. Which of the following comes first?
 - a. Problem scoping
 - b. Problem identification
 - c. Goals identification
 - d. Stakeholders identification
18. Which of the following data is available as soon as the data event takes place?
 - a. Big data
 - b. Real time data
 - c. Spatio-temporal data
 - d. Time stamped data
19. Which of the following activity is NOT a part of Evaluation and Deployment stage?
 - a. Evaluation
 - b. Tuning
 - c. Review
 - d. Exploration
20. AI systems cannot data.
 - a. Sort
 - b. Classify
 - c. Understand
 - d. Analyse
21. Train schedules of Indian Railways and mark sheets of students in the specific class are examples of
 - a. Structured data
 - b. Un-structured data
 - c. Semi-structured data
 - d. Big data
22. Which of the following technology is based on the adaption of how the human brain works?
 - a. Supercomputing
 - b. Smart technology
 - c. Super networks
 - d. Neural networks
23. Which of the following is not part of AI project cycle?
 - a. Data Exploration
 - b. Modelling
 - c. Testing
 - d. Problem Scoping
24. Name two methods of collecting data.
 - a. Surveys and Interviews
 - b. Rumors and Myths
 - c. AI models and applications
 - d. Imagination and thoughts

Section B:

III. Answer any 3 questions out given 5 questions. (2x3=6)

1. Name the methods of Communication.
2. What is meant by communication cycle?
3. Mention any two factors responsible for causing Internal barriers during communication.
4. What are the 7C's of communication?
5. What is a phrase? Give two examples of phrases.

IV. Answer any 4 questions out given 6 questions. (2X4=8)

1. How is an AI project cycle different from a normal IT project cycle?
2. Differentiate between Data acquisition and Data exploration.
3. Write a short note on Big Data.
4. Explain the Black Box problem and its implications?
5. Differentiate between supervised and unsupervised learning.
6. Write a short note on good AI policy.

Section C:

V. Answer any 3 questions out given 5 questions. (4X3=12)

1. You have been asked to design an AI-based system. What are the ethical concerns related to Adoption of AI system?
2. What are the 5 stages of project cycle? Explain each stage briefly.
3. How can data be classified based upon Basic classification and Structural classification. Explain.
4. Explain domains of Artificial Intelligence.
5. What is Neural Networks? How does a Neural Network work?