Class XII English Core (301) Sample Question Paper 2018-19

Time allowed: 3 hrs.

General Instructions:

- 1. This paper is divided into three sections: A, B and C.
- 2. All the sections are compulsory.
- **3.** Read the instructions very carefully given with each section and question and follow them faithfully.
- 4. Do not exceed the prescribed word limit while answering the questions.

SECTION-A (READING)

Q1. Read the passage and on the basis of your understanding of the passage answer the questions given below: (20)

- 1. India has never subscribed to the doctrine of militarism and war in her history. Here war was never treated as an ideal. It was only tolerated as unavoidable and inevitable, and all attempts were made to check it and bring it under control. Inspite of the frequency of wars in ancient India, in spite of highly developed military organization, techniques of war and imperialism, and in spite of the open justification of war as national policy, the heart of India loved pacifisms as an ideal capable of realization. India's symbolic role was that of a peacemaker and it sincerely pinned its faith on the principle of 'Live and let live'. At least philosophically, India's intelligence supported the cause of peace not only in national affairs but in international affairs also. All the great seers of the yore visualized the unity of life, permeating all beings, animate or inanimate, which ruled out killing and suicidal wars.
- 2. This doctrine of philosophical pacifisms was practiced by ancient *Aryans* is, no doubt, a question of controversial nature. Certainly, the great Indian teachers and *savants* stuck to this doctrine tenaciously and in their personal life they translated it into practice and preached it to masses and even to princes of military classes.
- 3. Another culture of those times, the existence of which has been proved by the excavations of *Mohanjo-Daro*, also enunciated the doctrine of pacificism and friendship to all. Strangely enough, the Indus Valley civilization has revealed no fortification and very few weapons.
- 4. Ahimsa or the doctrine of non-violence in thought, speech and action assumed a gigantic importance in the Buddhist and Jain period. By a constant practice of this virtue, man becomes unassailable by even wild beasts, who forgot their ferocity the moment they entered the circumference of his magnetic influence. The monks and nuns of these churches were apostles of peace, who reached every nook and corner of the world and delivered the message of love to war-weary humanity. The greatest votary was the royal monk *Ashoka*, who in reality was responsible for transforming Ahimsa as an act of personal virtue, to Ahimsa as an act of national virtue.

Max. Marks: 100

- 5. Many a historian recounting the causes of the downfall of the *Mauryas*, hold the pacific policy of *Ashoka* which had eschewed the aggressive militarism of his predecessors, responsible for an early decay of the military strength of the state and its consequent disintegration, leading to the rise of *Sungas, Kanvas* and *Andhras*. But, in reality the fault lies with the weak successors of *Ashoka*, who could not wield the weapon of non-violence with a skill and efficiency which required the strength of a spiritual giant like *Ashoka*. They failed due to their subjective weakness: Pacifism itself was no cause of their failure.
- 6. Besides the foregoing philosophical and religious school of thought, even many political authorities gave their unqualified support to the cause of pacifisms. They recognized the right of rivals to exist, not mainly as enemies, but as collaborators in the building of a civilization operation. Thus, for centuries, in the pre-*Mauryan* India, scores of small independent republics existed and flourished without coming in clash with each other.
- 7. With regard to *Kautilya*, the much maligned militarist and the so called Machiavelli of India, He thinks that the object of diplomacy is to avoid war.
- 8. The Mahabharata observes in the connection, "A wise man should be content with what can be obtained by the expedients of conciliation, gift and dissention." It denounces the warring world of men by comparing it to a dog-kennel. "First there comes the wagging of tails, then turning of one round to other, then the show of teeth, then the roaring and then comes the commencement of the fights. It is the same with men; there is no difference whatever." *Yajnavalkya* adds: 'War is the last expedient to be used when all others have failed." Likewise, *Sri Krishna* who's *Bhagwad-Gita* has been styled by some as 'a song of the battle', should not be considered out and out militarist. When all the three expedients were exhausted, then alone the fourth was resorted to.
- 9. All possible avenues of peace such as negotiation, conciliation through conference, meditation and so on, were explored before the war was resorted to. This proves that the heart of ancient India was sound and it longed for peace, although war also was not treated as an anathema, which was to be avoided as far as possible. (Words-737)

(Extract from 'Culture India-Pacifism has been the Ideal' by Sri Indra)

1.1 Answer each of the questions given below by choosing the most appropriate option: (1X5=5)

- (i) The heart of India loved _____
 - a) a highly developed military organization
 - b) techniques of wars and imperialism
 - c) loans
 - d) pacifism
- (ii) Principle of 'Live and let live' means
 - a) imperialism
 - b) militarism
 - c) frequency of wars among nations
 - d) role of peace makers

(iii) Aryans preached and practiced this to the masses

- a) non-violence
- b) freedom of speech and action
- c) philosophical pacifisms
- d) practice of military organization
- (iv) Mahabharata compares the warring world with
 - a) wise men
 - b) dog kennel
 - c) song of the battle
 - d) militarist

(v) Unearthing Mohan-jo-Daro reinforced the following of Pacifism

- a) there was no fortification and very few weapons
- b) they delivered the message of love
- c) they were apostles of peace
- d) thinks that the object of diplomacy is to avoid war

1.2 Answer the following questions briefly:

(1X6=6)

- (i) How was war treated in India?
- (ii) Describe India's preparedness for war in spite of their belief in Pacifism.
- (iii) How did the Aryans practice the Doctrine of Pacifism?
- (iv) What is Ahimsa?
- (v) What is the meaning of co-existence with rivals?
- (vi) Why should Bhagvad-Gita not be considered as "A song of the battle"?

1.3 Answer any three of the following questions in 25-30 words: (2X3=6)

- (i) What kind of unity did all the seers visualize?
- (ii) By some, Ashoka was considered as the cause of the downfall of the Mauryas. Do you agree? Give reasons for your answer.
- (iii) Which options were explored by Sri Krishna before resorting to war?
- (iv) Throw some light on the thinking of Kautilya regarding war.

1.4 Pick out the words/phrases from the passage which are similar in meaning to the following:

(1X3=3)

- (i) express in definite and clear terms (para 3)
- (ii) defensive wall (para 3)
- (iii) the beginning (para 8)

Q 2. Read the passage and answer the questions given below:

- 1. There is a clear dichotomy between *Jayashankar Prasad's* daily life and the one that found expression in his literature. In his literary formulations, *Prasad* advocated an escape- from-personality ideal and categorically stated: "An artist's art, and not his person, is the touchstone to assess his work . . . it is only after losing his personality that he emerges in his art as an artist".
- 2. In *Prasad*'s works his poems, short stories, novels, dramas etc. what emerges is life as shaped in the writer's inner self by his emotions, fancies, dreams, reveries . . . His writings are a record not of outer reality, but of the artist's inner world. As such, of a proper appreciation and understanding of his works more emphasis needs to be placed on the working of his mind, than the events of his day-to-day life.
- 3. Prasad was born in a renowned family of *Varansi*. His grand-father *Shiv RatanSahu*, a dealer in high quality perfumed tobacco (snuff). Besides being an astute businessman, he was endowed with a marked cultural taste. His home was the meeting place of the local poets, singers, artists, scholars and men of religion. Prasad's father *Devi Prasad Sahu* carried forward this high tradition of family. *Prasad*, therefore, had a chance to study the various phases of human nature in the light of the business traditions, artistic taste and religious background of his family.
- 4. When the business had somewhat recovered, *Prasad* planned the publication of a literary journal. Prasad started the "Indu". The inaugural number appeared in July 1909. By this time Prasad's notions of literature had crystalized into a credo. In the first issue of *Indu*, he proclaimed, 'Literature has no fixed aim; it is not slave to rules; it is free and all-embracing genius, gives birth to genuine literature which is subservient to none. Whatever in the world is true and beautiful is its subject matter. By the dealing with the True and Beautiful it establishes the one and affects the full flowering of the others. Its force can be measured by the degree of pleasure it gives to the reader's mind as also by criticism which is free of all prejudice". The words sound like the manifesto of romanticism in literature.
- 5. Even while recognizing the social relevance of literature, *Prasad* insisted, "The poet is a creator . . . he is not conditioned by his milieu; rather it is he who moulds it and gives it a new shape; he conjures up a new world of beauty where the reader for the time being, becomes oblivious of the outer world and passes his time in an eternal spring garden where golden lotuses blossom and the air is thick and pollen". Thus, the chief aim of literature according to Prasad is to give joy to the reader and to create a state of bliss in him. Later under the impact of *Shaivadvaitism*, this faith of *Prasad* got further strengthened. (word length- 490)

(Extract from 'Jayashankar Prasad- His mind and Art' by Dr. Nagendra)

- 2.1 On the basis of your understanding of the above passage, make notes on it using headings and sub-headings. Use recognizable abbreviations (wherever necessary-minimum four) and a format you consider suitable. Also supply an appropriate title to it. (5)
- 2.2 Write a summary of the passage in about 100 words.

(5)

SECTION: B (ADVANCED WRITING SKILLS)

Q.3 You are Simar / Smriti of Lotus International School, Jodhpur. Your school is organizing a workshop on 'Prevention of Drug Abuse' in the coming week. Prepare a poster with complete information for the students of class X-XII. (4)

OR

You are Simar / Smriti of Lotus International School, Jodhpur.Your school has decided to contribute in controlling traffic near your school and requires the names of volunteers from IX to XII. Write a notice to be displayed on the notice board. (50 words) (4)

Q.4 Public demonstration causes a lot of disturbance in daily routine of common man. You almost missed your important entrance examination as people blocked the highway. As Tarun / Taruna, a student aspiring to be a doctor, write a letter to the Editor of The Times of India highlighting the need to discourage such demonstrations and disturbance by public on highways which cause a great loss of time and opportunity for many. (100-125 words) (6)

OR

You are Tarun / Taruna who bought a new Luminous Inverter for your home from R.K. Electronics, Noida but found many functional problems as the charging is not done properly and battery water is getting leaked. Write a letter of complaint to the proprietor to take care of the same. (100-125 words) (6)

Q.5 You are Mukul / Mahima of Alps Public School. Your school has organized a debate on 'Social Media and It's Effects' and you will be participating from your school. Prepare your views against or in favour of the motion. (150-200 words) (10)

OR

As Mukul / Mahima of Alps Public School, write a speech to be delivered in school assembly highlighting the importance of cleanliness suggesting that the state of cleanliness reflects the character of its citizens. (150-200 words) (10)

Q.6 By 2050, India will be amongst the countries which will face acute water shortage. You are highly alarmed and terrified of the future world without water. So, write an article on 'Save water- are we doing enough?' for the local daily in 150-200 words. (10)

OR

You are Karan / Kirti of L.M. Memorial Public School, Dwarka. Your school has adopted a village as a social responsibility. Students are being taken to teach the children of that village on a regular basis. Write a report, for your school magazine, on the various other programmes organized there in 150-200 words. (10)

SECTION: C

(LITERATURE: TEXT BOOKS and LONG READING TEXT)

Q7. Read the following extract and answer the following questions briefly:

What I want should not be confused with total inactivity. Life is what it is about; I want no truck with death.

- (i) Name the poem and the poet of the above stanza.
- (ii) What does the poet mean by 'inactivity'?
- (iii) Explain what life is all about, according to the poet?
- (iv) What is the ultimate expectation of the poet from all human beings? (1X4=4)

OR

When aunt is dead, her terrified hands will lie Still ringed with ordeals she was mastered by. The tigers in the panel that she made Will go on prancing, proud and unafraid.

- (i) Name the poem and the poet of the above stanza.
- (ii) What lies in store for the Aunt?
- (iii) Explain 'ringed with ordeals'.
- (iv) Identify and name the poetic device used in the last line of the above stanza. (1X4=4)

Q8. Answer any four the following questions in 30-40 words: (3X4=12)

- (i) "We've all a great deal to reproach ourselves with" said M.Hamel. Refer to the context and explain what he wanted to convey to his students.
- (ii) Why was Edla happy to see the gift left by the peddler?
- (iii)When Gandhi got the whole hearted support of the lawyers, he said, 'The battle of Champaran is won'. What was the essence behind his statement?
- (iv)Did the prophecy of the astrologer come true at the end of the story? How?
- (v) What were the indignities that Zitkala-Sa had to suffer for being from a marginalized community?
- (vi)What story did Jo want to hear the next day and why? What was father's reaction to it?

Q 9. Answer any one of the following questions in 120-125 words:

(i) Mukesh is not like the others. His 'dreams loom like a mirage amidst the dust of streets that fill his town Firozabad'. Justify the statement in the light of contrast in the mindsets of Mukesh and the people of Firozabad.

(6)

- (ii) Unrealistic dreams often lead to a great deal of unhappiness. Justify the statement on the basis of the story 'Going Places'.
- (iii)The childhood experience of terror of Douglas made him stronger and more determined. Elucidate the above statement supporting it with evidences from the text.

Q10. Answer any one of the following questions in about 120-150 words:

- (i) The servants of Sadao and Hana reflect a particular mindset of the general public in society towards the thinking and broad minded human beings. Elaborate with the help of the story 'The Enemy''.
- (ii) Optimism in one's attitude helps deal with all the challenges in life. Prove the statement by referring to the character Mr. Lamb from the chapter 'On the Face of It'.
- (iii) Give a detailed account of the preparations made by the Governor for Evans James to write his examination.

Q11. Answer any one the following questions in about 120-150 words: (6)

- (i) 'I do not agree to this. Why dream of playing a game against the race. How can you hope to gain happiness? Do not be a lone wolf. Publish your results, take the world-take the nation at least-into your confidence', said Dr. Kemp. These words sum up, to a large extent, the downfall of a genius like Griffin. Elucidate from the novel 'The Invisible Man'.
- (ii) Mr. Hall is a carefree man as he has a typical working life-partner in Mrs. Hall. Such persons are found in every society. Give a peep into both their characters. (The Invisible Man)
- (iii) How are the weavers treated differently from the farmers by the locals of Raveloe? (Silas Marner)
- (iv) Describe in your own words, the village of Raveloe. List some of the differences between Raveloe and Lanter Yard.

Q12. Answer any one of the following questions in about 120-150 words: (6)

- (i) The unveiling of the stranger was as unplanned and sudden for himself as for the people of Iping. Explain the reason, incident and consequence of his unveiling.
- (ii) Describe and analyse the contribution of rustic characters in the development of plot of the novel, 'The Invisible Man'.
- (iii) What is the significance of Gold in the novel, 'Silas Marner.
- (iv) In the war between love and luxury, love has priority. Justify on the basis of Silas Marner.

MATHEMATICS

Time allowed : 3 hours

Maximum Marks: 100

General Instructions:

- 1. All questions are compulsory.
- 2. This question paper contains 29 questions.
- 3. Questions 1 4 in Section A are very short-answer type questions carrying 1 mark each.
- 4. Questions 5 12 in Section B are short-answer type questions carrying 2 marks each.
- 5. Questions 13 23 in Section C are long-answer I type questions carrying 4 marks each.
- 6. Questions 24 29 in Section D are long-answer II type questions carrying 6 marks each.

Section A

- 1. If A and B are invertible matrices of order 3, |A| = 2 and $|(AB)^{-1}| = -\frac{1}{6}$. Find |B|.
- 2. Differentiate $\sin^2(x^2)$ w.r.t x^2 .
- 3. Write the order of the differential equation:

$$\log\left(\frac{d^2y}{dx^2}\right) = \left(\frac{dy}{dx}\right)^3 + x$$

4. Find the acute angle which the line with direction cosines $\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{6}}$, n makes with

positive direction of z-axis.

OR

Find the direction cosines of the line: $\frac{x-1}{2} = -y = \frac{z+1}{2}$

Section B

Let A = Z × Z and * be a binary operation on A defined by
 (a, b)*(c, d) = (ad + bc, bd).

Find the identity element for * in the set A.

6. If
$$A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$$
 and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, find k so that $A^2 = 5A + kI$.

7. Find:
$$\int \frac{(x^2 + \sin^2 x) \sec^2 x}{1 + x^2} dx$$

8. Find: $\int \frac{e^x (x - 3)}{(x - 1)^3} dx$
OR
Find: $\int \frac{(x^4 - x)^{\frac{1}{4}}}{x^5} dx$

- 9. Form the differential equation of all circles which touch the x-axis at the origin.
- 10. Find the area of the parallelogram whose diagonals are represented by the vectors $\vec{a} = 2\hat{i} 3\hat{j} + 4\hat{k}$ and $\vec{b} = 2\hat{i} \hat{j} + 2\hat{k}$

OR

Find the angle between the vectors

$$\vec{a} = \hat{i} + \hat{j} - \hat{k}$$
 and $\vec{b} = \hat{i} - \hat{j} + \hat{k}$

- 11. If A and B are two independent events, prove that A' and B are also independent.
- 12. One bag contains 3 red and 5 black balls. Another bag contains 6 red and 4 black balls. A ball is transferred from first bag to the second bag and then a ball is drawn from the second bag. Find the probability that the ball drawn is red.

OR

If P(A) = 0.6, P(B) = 0.5 and P(A|B) = 0.3, then find $P(A \cup B)$.

Section C

13. Prove that the function $f:[0, \infty) \rightarrow R$ given by $f(x) = 9x^2 + 6x - 5$ is not invertible. Modify the codomain of the function f to make it invertible, and hence find f^{-1} .

OR

Check whether the relation R in the set **R** of real numbers, defined by $R = \{(a, b) : 1 + ab > 0\}$, is reflexive, symmetric or transitive.

14. Find the value of : $\sin\left(2\tan^{-1}\frac{1}{4}\right) + \cos(\tan^{-1}2\sqrt{2})$

15. Using properties of determinants, prove that:

$$\begin{vmatrix} a & b-c & c+b \\ a+c & b & c-a \\ a-b & b+a & c \end{vmatrix} = (a+b+c) (a^2+b^2+c^2)$$

16. If
$$y = x^{\sin x} + \sin(x^x)$$
, find $\frac{dy}{dx}$

If
$$y = \log(1 + 2t^2 + t^4)$$
, $x = \tan^{-1} t$, find $\frac{d^2 y}{dx^2}$

17. If $y = \cos(m\cos^{-1}x)$

Show that:
$$(1-x^2)\frac{d^2y}{dx^2} - x\frac{dy}{dx} + m^2y = 0$$

18. Find the equations of the normal to the curve $y = 4x^3 - 3x + 5$ which are perpendicular to the line 9x - y + 5 = 0.

19. Find:
$$\int \frac{x^4 + 1}{x(x^2 + 1)^2} dx$$

20. Evaluate:
$$\int_{-1}^{1} \frac{x + |x| + 1}{x^2 + 2|x| + 1} dx$$

21. Find the particular solution of the following differential equation.

$$\cos y \, dx + (1 + 2e^{-x}) \sin y \, dy = 0; \ y(0) = \frac{\pi}{4}$$

OR

Find the general solution of the differential equation:

$$\frac{\mathrm{dx}}{\mathrm{dy}} = \frac{y \tan y - x \tan y - xy}{y \tan y}$$

- 22. If $\vec{p} = \hat{i} + \hat{j} + \hat{k}$ and $\vec{q} = \hat{i} 2\hat{j} + \hat{k}$, find a vector of magnitude $5\sqrt{3}$ units perpendicular to the vector \vec{q} and coplanar with vectors \vec{p} and \vec{q} .
- 23. Find the vector equation of the line joining (1, 2, 3) and (-3, 4, 3) and show that it is perpendicular to the z-axis.

Section D

24. If
$$A = \begin{bmatrix} 3 & 1 & 2 \\ 3 & 2 & -3 \\ 2 & 0 & -1 \end{bmatrix}$$
, find A^{-1} .

Hence, solve the system of equations:

$$3x + 3y + 2z = 1$$

 $x + 2y = 4$
 $2x - 3y - z = 5$

OR

Find the inverse of the following matrix using elementary transformations.

2	-1	3
-5	3	1
3	2	3

- 25. A cuboidal shaped godown with square base is to be constructed. Three times as much cost per square meter is incurred for constructing the roof as compared to the walls. Find the dimensions of the godown if it is to enclose a given volume and minimize the cost of constructing the roof and the walls.
- 26. Find the area bounded by the curves $y = \sqrt{x}$, 2y + 3 = x and x axis.

OR

Find the area of the region.

$$\{(x, y): x^2 + y^2 \le 8, x^2 \le 2y\}$$

27. Find the equation of the plane through the line $\frac{x-1}{3} = \frac{y-4}{2} = \frac{z-4}{-2}$ and parallel to the line $\frac{x+1}{2} = \frac{1-y}{4} = \frac{z+2}{1}$. Hence, find the shortest distance between the lines.

OR

Show that the line of intersection of the planes x + 2y + 3z = 8 and 2x + 3y + 4z = 11 is coplanar with the line $\frac{x+1}{1} = \frac{y+1}{2} = \frac{z+1}{3}$. Also find the equation of the plane containing them.

	Machines		
Types of Toys	Ι	II	III
А	20	10	10
В	10	20	30

28. A manufacturer makes two types of toys A and B. Three machine are needed for this purpose and the time (in minutes) required for each toy on the machines is given below:

The machines I, II and III are available for a maximum of 3 hours, 2 hours and 2 hours 30 minutes respectively. The profit on each toy of type A is \gtrless 50 and that of type B is \gtrless 60. Formulate the above problem as a L.P.P and solve it graphically to maximize profit.

29. The members of a consulting firm rent cars from three rental agencies:

50% from agency X, 30% from agency Y and 20% from agency Z.

From past experience it is known that 9% of the cars from agency X need a service and tuning before renting, 12% of the cars from agency Y need a service and tuning before renting and 10% of the cars from agency Z need a service and tuning before renting. If the rental car delivered to the firm needs service and tuning, find the probability that agency Z is not to be blamed.

Class XII Physics (042) Sample Question Paper 2018-19

Time allowed: 3 hours.

Max. Marks: 70

General Instructions:

- *1*. All questions are compulsory. There are 27 questions in all.
- 2. This question paper has four sections: Section A, Section B, Section C and Section D.
- *3.* Section A contains five questions of one mark each, Section B contains seven questions of two marks each, Section C contains twelve questions of three marks each, and Section D contains three questions of five marks each.
- 4. There is no overall choice. However, internal choices have been provided in two questions of one mark, two questions of two marks, four questions of three marks and three questions of five marks weightage. You have to attempt only one of the choices in such questions.
- 5. You may use the following values of physical constants wherever necessary.

 $c = 3 \times 10^{8} \text{ m/s}$ $h = 6.63 \times 10^{-34} \text{ Js}$ $e = 1.6 \times 10^{-19} \text{ C}$ $\mu_{o} = 4\pi \times 10^{-7} \text{ T m A}^{-1}$ $\epsilon_{0} = 8.854 \times 10^{-12} \text{ C}^{2} \text{ N}^{-1} \text{ m}^{-2}$ $\frac{1}{4\pi\epsilon_{0}} = 9 \times 10^{9} \text{ N m}^{2} \text{ C}^{-2}$ $m_{e} = 9.1 \times 10^{-31} \text{ kg}$ mass of neutron = 1.675 x 10⁻²⁷ kg mass of proton = 1.673 x 10⁻²⁷ kg Avogadro's number = 6.023 x 10²³ per gram mole Boltzmann constant = 1.38 x 10⁻²³ JK⁻¹

	Section-A	
1.	State the SI unit of the electric polarization vector P	1
2.	Define temperature coefficient of resistivity	1







	(b) Next, the dipole is kept in a similar way (as shown), near an infinitely long straight wire having uniform negative linear charge density.			
	P1 p2			
	\rightarrow \rightarrow			
	Will the dipole be in equilibrium at these two positions? Justify your answer.			
15.	Two material bars A and B of equal area of cross-section, are connected in series to a DC supply. A is made of usual resistance wire and B of an n-type semiconductor.	3		
	(a) In which bar is drift speed of free electrons greater?			
	(b) If the same constant current continues to flow for a long time, how will the voltage drop across A and B be affected?			
	Justify each answer.			
16.	Derive an expression for the velocity $\mathbf{v}_{\rm C}$ of a positive ions passing undeflected through a	3		
	region where crossed and uniform electric field E and magnetic field B are simultaneously present.			
	Draw and justify the trajectory of identical positive ions whose velocity has a magnitude less than Iv_CI .			
	OR			
	A particle of mass m and charge q is in motion at speed v parallel to a long straight conductor carrying current I as shown below.			
	Y			
	r 🕇 I			
	····· X' X			
	Find magnitude and direction of electric field required so that the particle goes undeflected			
17.	A sinusoidal voltage of peak value 10 V is applied to a series LCR circuit in which resistance,	3		
	capacitance and inductance have values of 10 Ω , 1µF and 1H respectively. Find (i) the peak voltage across the inductor at resonance (ii) quality factor of the circuit.			
18.	a) What is the principle of transformer?	3		

	b) Explain how laminating the core of a transformer helps to reduce eddy current losses in it		
	c) Why the primary and secondary coils of a transformer are preferably wound on the same core		
	OR		
	Show that in the free oscillations of an LC circuit, the sum of energies stored in the capacitor and the inductor is constant in time.		
19.	Draw a labelled ray diagram to show the image formation in a refracting type astronomical	3	
	telescope in the normal adjustment position. Write two drawbacks of refracting type		
	OR		
	(a)Define resolving power of a telescope. Write the factors on which it depends		
	(a) Define resolving power of a telescope. Write the factors of which it depends.		
20	(b) A telescope resolves whereas a microscope magnifies. Justify the statement.	2	
20.	iar on the bottom surface is a dot Find the minimum diameter of a disc. such that when it is	3	
	placed on the top surface symmetrically about the centre, the dot is invisible		
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21.	(a) In photoelectric effect, do all the electrons that absorb a photon come out as photoelectrons	3	
	irrespective of their location? Explain.		
	(b) A source of light, of frequency greater than the threshold frequency, is placed at a distance		
	d' from the cathode of a photocell. The stopping potential is found to be V. If the distance of the light source is reduced to d/r (where $r \ge 1$), explain the changes that are likely to be		
	of the light source is reduced to d/n (where n>1), explain the changes that are likely to be		
- 22	observed in the (1) photoelectric current and (1) stopping potential.	2	
22.	A monochromatic radiation of wavelength 9/5 A excites the hydrogen atom from its ground	3	
	spectrum? Which transition corresponds to the longest wavelength amongst them?		
23	Binding energy per nucleon versus mass number curve is as shown	3	
	$A \subseteq A^{1}W$ $A^{2}X$ and $A^{3}V$ are four nuclei indicated on the curve	•	
	Z ³ , Z ¹ ^w , Z ² A unu Z ³¹ are four nuclei indicated on the curve.		

	Based on the graph: (a)Arrange X, W and S in the increasing order of stability. (b) Write the relation between the relevant A and Z values for the following nuclear reaction. $S \longrightarrow X + W$ (c)Explain why binding energy for heavy nuclei is low.	
	OR How are protons, which are positively charged, held together inside a nucleus? Explain the	
	variation of potential energy of a pair of nucleons as a function of their separation. State the significance of negative potential energy in this region?	
24.	A sinusoidal carrier wave of amplitude A_c and angular frequency ω_c is modulated in accordance with a sinusoidal information signal of amplitude A_m and angular frequency ω_m . Show that the amplitude modulated signal contains three frequencies centered around ω_c . Draw the frequency spectrum of the resulting modulated signal.	3
	Section-D	
25.	 (a)Write the expression for the equivalent magnetic moment of a planer current loop of area A, having N turns and carrying a current i. Use the expression to find the magnetic dipole moment of a revolving electron. (b) A circular loop of radius r, having N turns and carrying current I, is kept in the XY plane. It is then subjected to a uniform magnetic field B = B_x i + B_y j + B_z k. Obtain expression for the magnetic potential energy of the coil-magnetic field system. OR (a) A long solenoid with air core has n turns per unit length and carries a current I. Using Ampere's circuital law, derive an expression for the magnetic field B at an interior point on its axis. Write an expression for magnetic intensity H in the interior of the solenoid. (b) A (small) bar of material, having magnetic susceptibility χ, is now put along the axis and near the centre, of the solenoid which is carrying a d c current through its coils. After some 	
	time, the bar is taken out and suspended freely with an unspun thread. Will the bar orient itself in magnetic meridian if (i) $\chi < 0$ (ii) $\chi > 1000$?	
26.	Justify your answer in each case.(a)There are two sets of apparatus of Young's double slit experiment. In set A, the phasedifference between the two waves emanating from the slits does not change with time,	5

-		
	whereas in set B, the phase difference between the two waves from the slits changes rapidly with time. What difference will be observed in the pattern obtained on the screen in the two set ups?	
	set ups:	
	(b) Deduce the expression for the resultant intensity in both the above mentioned set ups (A	
	and B), assuming that the waves emanating from the two slits have the same amplitude A and same wavelength λ .	
	OR	
	(a) The two polaroids, in a given set up, are kept 'crossed' with respect to each other. A third polaroid, now put in between these two polaroids, can be rotated. Find an expression for the	
	pass axis of first and the third polaroid. Draw a graph showing the dependence of I on Θ .	
	(b) When an unpolarized light is incident on a plane glass surface, find the expression for the angle of incidence so that the reflected and refracted light rays are perpendicular to each other.	
	What is the state of polarisation, of reflected and refracted light, under this condition?	
27.	(a) Draw the circuit diagram to determine the characteristics of a pnp transistor in common emitter configuration.	5
	Explain using I-V characteristics how the collector current changes with the base current	
	How can (i) output resistance and (ii) current amplification factor be determined from the I- V characteristics?	
	OR	
	(a) Why are photodiodes preferably operated under reverse bias when the current in the	
	forward bias is known to be more than that in reverse bias?	
	The two optoelectronic devices: - Photodiode and solar cell, have the same working principle	
	but differ in terms of their process of operation. Explain the difference between the two devices in terms of (i) biasing (ii) junction area and (iii) LV characteristics	
L	devices in terms of (1) blashig, (1) junction died and (11) 1 V characteristics.	

Class XII Chemistry (Code – 043) Sample Question Paper 2018-19

Time allowed: 3 Hours

Max. Marks: 70

General Instructions:

(a) All questions are compulsory.

(b) Section A: Q.no. 1 to 5 are very short answer questions and carry 1 mark each.

(c) Section B: Q.no. 6 to 12 are short answer questions and carry 2 marks each.

(d) Section C: Q.no. 13 to 24 are also short answer questions and carry 3 marks each.

(e) Section D: Q.no. 25 to 27 are long answer questions and carry 5 marks each.

(f) There is no overall choice. However an internal choice has been provided in two questions of one mark, two questions of two marks, four questions of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.

(g) Use of log tables if necessary, use of calculators is not allowed.

	Section-A	
1.	ZnO crystal on heating acquires the formula Zn $_{1+x}$ O. Give reason.	
	OR	
	There is an increase in conductivity when Silicon is doped with Phosphorous. Give reason	
2.	Based on the type of dispersed phase, what type of colloids are micelles?	1
3.	On the basis of crystal field theory, write the electronic configuration of d ⁶ in terms of t_{2g} and e_g in an octahedral field when $\Delta_o < P$.	1
	OR	
	Low spin configuration are rarely observed in tetrahedral coordination entity formation. Explain	
4.	Identify the compound that on hydrogenation produces an optically active compound from the following compounds: $H_{2}C \xrightarrow[(A)]{H_{3}}CH_{3}$ $H_{3}C \xrightarrow[(B)]{H_{3}}CH_{3}$	1
5.	Write the name of the biodegradable polymer used in orthopaedic devices.	1



11.	Draw the molecular structures of the following:	2	
	(a) Noble gas species which is isostructural with BrO_3^-		
	(b) Dibasic oxoacid of phosphorus		
12.	(i) On the basis of the standard electrode potential values stated for acid solutions, predict T^{4+}	2	
	whether Π^{+} species may be used to oxidise Fe(II) to Fe(III)		
	$Ti^{i++} + e^- \rightarrow Ti^{i+-} \qquad E^o = +0.01V$		
	$Fe^{3+} + e^- \rightarrow Fe^{2+}$ $E^o = +0.77V$		
	(ii) Based on the data arrange Fe ²⁺ , Mn ²⁺ and Cr ²⁺ in the increasing order of stability of +2 oxidation state.(Give a brief reason) $E^{o} cr^{3+} cr^{2+} = -0.4V$		
	$E^{o}_{Mn^{3+}/Mn^{2+}} = +1.5V$		
	$E^{o}_{Fe^{3+}/Fe^{2+}} = +0.8V$		
	Section-C		
13.	Niobium crystallises in body-centred cubic structure. If the atomic radius is 143.1 pm, calculate the density of Niobium. (Atomic mass = 93u).	3	
14.	Give reasons for the following:	3	
	 a. When 2g of benzoic acid is dissolved in 25 g of benzene, the experimentally determined molar mass is always greater than the true value. b. Mixture of ethanol and acetone shows positive deviation from Raoult's Law. c. The preservation of fruits by adding concentrated sugar solution protects against bacterial action. 		
15.	An alcohol A ($C_4H_{10}O$) on oxidation with acidified potassium dichromate gives acid B	3	
	$(C_4H_8O_2)$. Compound A when dehydrated with conc. H_2SO_4 at 443 K gives compound C. Treatment of C with aqueous H_2SO_4 gives compound D ($C_4H_{10}O$) which is an isomer of A. Compound D is resistant to oxidation but compound A can be easily oxidised. Identify A, B, C and D. Name the type of isomerism exhibited by A and D		
16.	Which one of the following compounds will undergo faster hydrolysis reaction by S_N1 mechanism? Justify your answer.	3	
	CH_CI		
	\sim or CH ₃ CH ₂ CH ₂ Cl		
	OR		
	A compound is formed by the substitution of two chlorine atoms for two hydrogen atoms in propane. Write the structures of the isomers possible. Give the IUPAC name of the isomer which can exhibit enantiomerism.		

17.	Complete the following reactions :	3		
	(a) $H_2N-OH \longrightarrow$ (b)			
	$\overset{\text{KMnO}_4, \text{H}_2\text{SO}_4}{\Delta}$			
	(c) $COOH$ + NH_3 \longrightarrow			
18.	Give reasons for the following:	3		
	 (i) Use of aspartame as an artificial sweetener is limited to cold foods. (ii) Metal hydroxides are better alternatives than sodium hydrogen carbonate for treatment of acidity. (iii) Aspirin is used in prevention of heart attacks. 			
19.	 9. (a) Name the branched chain component of starch. (b) Ribose in RNA and deoxyribose in DNA differ in the structure around which carbon atom? (c) How many peptide linkages are present in a tripeptide? 			
	OR			
	Give three reactions of glucose which cannot be explained by its chain structure			
20.	The following data were obtained during the first order thermal decomposition of $N_2O_5(g)$ at a constant volume:	3		
	$2N_2O_5(g) \to 2N_2O_4(g) + O_2(g)$			
	S.No. Time (sec.) Total pressure(atm)			
	1. 0 0.5			
	2. 100 0.512			
	Calculate the rate constant			
	OR			
	Two reactions of the same order have equal pre exponential factors but their activation energies differ by 24.9 kJ mol ⁻¹ . Calculate the ratio between the rate constants of these reactions at 27°C. (Gas constant $R = 8.314 \text{ J K}^{-1} \text{ mol}^{-1}$)			

21.	(a) A colloidal sol is prepared by the given method in figure. What is the charge of AgI 3 colloidal particles in the test tube? How is the sol formed, represented?			
	AgNO,			
	(b) Explain how the phenomenon of adsorption finds application in Heterogeneous			
	catalysis.			
	(c) Which of the following electrolytes is the most effective for the coagulation of Fe(OH) sol which is a positively charged sol ?			
	NaCl, Na ₂ SO ₄ , Na ₃ PO ₄			
22	Describe how the following steps can be carried out?	3		
		U		
	 (a) Recovery of Gold from leached gold metal complex (b) Conversion of Zirconium iodide to pure Zirconium 			
	(c) Formation of slag in the extraction of copper.			
	(Write the chemical equations also for the reactions involved)			
	OR			
	Explain the use of the following:			
	a) NaCN in Froth Floatation Method.			
	a) NaCN in Froth Floatation Method.b) Carbon monoxide in Mond process.			
	 a) NaCN in Froth Floatation Method. b) Carbon monoxide in Mond process. c) Coke in the extraction of Zinc from Zinc Oxide 			
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	(a) Apply Kohlrausch law of to determine the limiting	of independent migrati g molar conductivity of	on of ions, write the expression calcium chloride.	
	(b) Given are the conductivity and molar conductivity of NaCl solutions at 298K at different concentrations:			
	Concentration M	Conductivity Scm ⁻¹	Molar conductivity S cm ² mol ⁻¹	
	0.100	106.74 x 10 ⁻⁴	106.7	
	0.05	55.53 x 10 ⁻⁴	111.1	
	0.02	23.15 x 10 ⁻⁴	115.8	
	(c) 0.1 M KCl solution offe 298 K. If the cell cor conductivity of KCl solu	ered a resistance of 10 stant of the cell is a ntion.	0 ohms in a conductivity cell at 1.29 cm^{-1} , calculate the molar	
27.	(a) Account for the following of	oservations:		5
	 (i) SF₄ is easily hydrolysed whereas SF₆ is not easily hydrolysed (ii) Chlorine water is a powerful bleaching agent. (iii) Bi(V) is a stronger oxidising agent than Sb(V) 			
	(b) What happens when			
	 (i) White phosphorus is heated with concentrated NaOH solution in an inert atmosphere of CO₂. (ii) XeF₆ undergoes partial hydrolysis. 			
	(Give the chemical equations involved).			
		OP		
		UK		_
	(a) What inspired N.Bartlett for carrying out reaction between Xe and PtF_6 ? (b) Arrange the following in the order of property indicated against each set:			
	(i) F_2 , I_2 , Br_2 , Cl (ii) NH_3 , AsH_3 , S	$_{2}$ (increasing bH ₃ , BiH ₃ , PH ₃ (decreasing b)	g bond dissociation enthalpy) easing base strength)	
	(c) Complete the following equation (i) $Cl_2 + Na$ (ii) $Fe^{3+} + Se^{3+}$	ations: $OH(cold and dilute) - O_2 + H_2O \rightarrow$	>	

Class: XII Biology-044 Sample Question Paper 2018-19

MM: 70

TIME: 3HOURS

1

1

General Instructions:

- 1. All questions are compulsory.
- 2. The question paper consists of four sections A, B, C and D.
- 3. Internal choice is given in all the sections. A student has to attempt only one of the alternatives in such questions.
- 4. Section–A contains 5 questions of 1 mark each.
- 5. Section–B has 7 questions of 2 marks each.
- 6. Section–C is of 12 questions of 3 marks each
- 7. Section–D has 3 questions of 5 marks each.
- 8. Wherever necessary, the diagrams drawn should be neat and properly labelled.

SECTION- A

1. How many pollen grains and ovules are likely to be formed in the anther and the ovary of an 1 angiosperm bearing 25 microspore mother cells and 25 megaspore mother cells respectively?

OR

In case of polyembryony, an embryo A develops from the synergids and the embryo B develops from the nucellus. State the ploidy of embryo A and B.

- 2. Give the scientific name of the source organism from which the first antibiotic was produced. 1
- 3. The prophase I stage of meiosis plays a vital role in r-DNA formation. Justify with reason.
- 4. Name the technique by which Gene expression can be controlled with the help of RNA 1 molecule.
- 5. Define Diapause

OR

Define Standing Crop

SECTION-B

6. The figure given below represents a molecule present in the body of a mammal -



- a) Name the parts labelled 'a' and 'b' in the molecule shown above.
- b) Name the type of cells that produce this molecule.

OR

Life style diseases are increasing alarmingly in India. We are also dealing with large scale malnutrition in the population. Suggest a process by which we can address both these problems. Give any three examples to support your answer.

- 7. Why does the lac operon shut down some time after the addition of lactose in the medium 2 where *E.coli* was growing? Why low level expression of lac operon is always required?
- 8. a) While cloning vectors, which of the two will be preferred by biotechnologists 2 bacteriophages or plasmids. Justify with reason.
 - b) Name the first transgenic cow developed and state the improvement in the quality of the product produced by it.
- 9. Explain the impact of removal of thymus gland on the immune system of a human body. 2

OR

A farmer maintained behives in his *Brassica* field during its flowering season. How will he be benefitted?

- 10. How do automobiles fitted with catalytic converters reduce air pollution? Suggest the best fuel 2 for such vehicles.
- 11. State the Mendelian principle which can be derived from a dihybrid cross and not from 2 monohybrid cross.
- 12. Comment upon the mode of pollination in *Vallisneria* and *Eichhornia* which have emergent 2 flowers.

SECTION- C

- 13. Alien species are highly invasive and are a threat to indigenous species. Substantiate this 3 statement with any three examples.
- 14. The embryo sac in female gametophyte is seven celled and eight nucleated structure. Justify 3 the statement with the help of a labelled diagram.

OR

List the changes that occur when an ovule matures into seed.

- 15. Compare and contrast the theories of evolution proposed by Darwin and Hugo De Vries. 3
- 16. Explain the different steps involved in the secondary treatment of sewage.

OR

3

3

Microbes can be used to decrease the use of chemical fertilizers. Explain how this can be accomplished.

a) How do DNA fragments migrate and resolve in a Gel electrophoresis?b) How lane one is different from lane 2, 3 and 4 in the Gel electrophoresis set up?c) How pure DNA fragments are made observable in the visible light?



- 18. Suggest and explain the assisted reproductive techniques which will help a couple to have 3 children, where the female had a blockage in the fallopian tube and the male partner had a low sperm count.
- 19. a) Construct a complete transcription unit with promoter and terminator on the basis of the 3 hypothetical template strand given below:



b) Write the RNA strand transcribed from the above transcription unit along with its polarity.

OR

- a) Mention two events in which DNA is unzipped.
- b) Predict the consequences when both the template and the coding strands of a DNA segment participate in transcription process?

- 20. As a biologist explain the technique to a dairy farmer for increasing the yield of herd size of 3 cattle in a short time.
- 21. The Indian Government refuted the attempt by a multinational company (MNC) to patent the 3 antiseptic property of curcumin derived from Turmeric. Analyze the unethical practice adopted by the MNC, state its implications and suggest provisions in the Indian Law to prevent such malpractices.
- 22. A 17-year old boy is suffering from high fever with profuse sweating and chills. Choose the 3 correct option from the following diseases which explains these symptoms and rule out the rest with adequate reasons.
 - (a) Typhoid (b) Viral Fever(c) Malaria
- 23. Study the given pedigree chart and answer the questions that follow:



(a) Is the trait recessive or dominant?

(b) Is the trait sex-linked or autosomal?

(c) Give the genotypes of the parents shown in generation I and their third child shown in generation II and the first grandchild shown in generation III.

OR

Haemophilia is a sex linked recessive disorder of humans. The pedigree chart given below shows the inheritance of Haemophilia in one family. Study the pattern of inheritance and answer the questions given.



3

(a) Give all the possible genotypes of the members 4, 5 and 6 in the pedigree chart.

(b) A blood test shows that the individual 14 is a carrier of haemophilia. The member numbered 15 has recently married the member numbered 14. What is the probability that their first child will be a haemophilic male.? Show with the help of Punnett square.

- 24. a) In a pond there were 200 frogs. 40 more were born in the year. Calculate the birth rate of 3 the population.
 - b) Population in terms of number is not always a necessary parameter to measure population density. Justify with two examples.

SECTION-D

25. People living in the coastal areas are forced to evict their dwelling units as the sea has 5 inundated into the land areas. State the possible reasons and suggest measures that could be taken to reduce the deleterious changes in the environment.

OR

A young sperm whale, 33-foot long was found dead off the coast. It had a large amount of human trash like trash bags, polypropylene sacks, ropes, net segments etc. amounting to 29 kilograms in its digestive system. The whale died because of inflammation of the abdominal lining. Analyze the possible reasons for such mishaps and suggest measures that can be taken to reduce such incidents.

26. Aneuploidy of chromosomes in human beings results in certain disorders. Draw out the 5 possibilities of the karyotype in common disorders of this kind in human beings and its consequences in individuals.

OR

In a dihybrid cross, white eyed, yellow bodied female *Drosophila* was crossed with red eyed, brown bodied male *Drosophila*. The cross produced 1.3 percent recombinants and 98.7 progeny with parental type combinations in the F2 generation. Analyze the above observation and compare with the Mendelian dihybrid cross.

27. Differentiate between spermatogenesis and oogenesis.

OR

5

'Parturition is induced by a complex Neuro endocrine mechanism'. Justify

Class XII Computer Science (083) Sample Question Paper 2018-19

Time allowed: 3 Hours

Max. Marks: 70

General Instructions:

- (a) All questions are compulsory.
- (b) Programming Language with C++
- (c) In Question 2(b, d), 3 and 4 has internal choices.

Q. No.	Part	Question Description	Marks
1	(a)	Write the type of C++ Operators (Arithmetic, Logical, and Relational Operators) from thefollowing: (i) !(ii) !=(iii) &&(iv) %	(2)
	(b)	<pre>Observe the following program very carefully and write the name of those header file(s), which are essentially needed to compile and execute thefollowing program successfully: void main() { char text[20], newText[20]; gets(text); strcpy(newText,text); for(int i=0;i<strlen(text);i++) if(text[i]="='A')" pre="" puts(text);="" text[i]="text[i]+2;" }="" }<=""></strlen(text);i++)></pre>	(1)
	(c)	Rewrite the following C++ code after removing any/all Syntactical Error(s) with each correction underlined. Note: Assume all required header files are already being included in the program. #define float PI 3.14 void main() { float R=4.5,H=1.5; A=2*PI*R*H + 2*PIpow(R,2); cout<<'Area='< <a<<endl; }</a<<endl; 	(2)

((d)	Find and write the output of the following C++ program code:	(3)
	. /	Note: Assume all required header files are already being included in	
		the program.	
		void main()	
		{	
		int Ar[] = { 6, 3, 8, 10, 4, 6, 7 };	
		int *Ptr = Ar, I;	
		cout<<++*Ptr++ << '@';	
		I = Ar[3] - Ar[2];	
		cout<<++*(Ptr+I)<<'@'<<"\n";	
		cout<<++I + *Ptr++ << '@';	
		cout<<*Ptr++ <<'@'<< '\n';	
		for(; $I >= 0$; $I == 2$)	
		cout< <ar[i] '@';<="" <<="" th=""><th></th></ar[i]>	
		}	
		,	
((e)	Find and write the output of the following C++ program code:	(2)
Ì	~ /	typedef char STRING[80];	~ /
		void MIXNOW(STRING S)	
		{	
		int Size=strlen(S);	
		for(int I=0;I <size;i+=2)< th=""><th></th></size;i+=2)<>	
		{	
		char WS=S[I];	
		S[I]=S[I+1];	
		S[I+1]=WS;	
		}	
		for $(I=1;I \leq Size;I=2)$	
		if (S[I]>='M' && S[I]<='U')	
		S[I]='@';	
		}	
		void main()	
		{	
		STRING Word="CBSEEXAM2019";	
		MIXNOW(Word);	
		cout< <word<<endl;< th=""><th></th></word<<endl;<>	
		}	
((f)	Observe the following program and find out, which output(s) out of (i) to	(2)
Ì	~ /	(iv) willbe expected from the program? What will be the minimum and the	
		maximum value assigned to the variable Alter?	
		č	
		Note: Assume all required header files are already being included in the	
		program.	
		void main()	
		{	
		randomize();	
		int Ar[]={10,7}, N;	

		int Alter=random $(2) + 10$:			
		for (int C=0:C<2:C++)			
		{			
		N=random(2);			
		cout << Ar[N] + Alter <<"#":			
		}			
		}			
		(i) 21#20# (ii) 20#18#			
		(iii) 20#17# (iv) 21#17#			
2	(a)	What is a copy constructor? Illustrate with a suitable C++ example.		(2)	
	(b)	Write the output of the following C++ code. Also, write the name of feature			
		of Object Oriented Programming used in the follow	ing program jointly		
		illustrated by the Function 1 to Function 4.			
		void My_fun ()	// Function 1		
		{			
		for (int I=1 ; I<=50 ; I++) cout<< "-'	',		
		cout< <end1;< th=""><th></th><th></th></end1;<>			
		}			
		void My_fun (int N)	// Function 2		
		{			
		for (int I=1 ; I<=N ; I++) cout<<"*"	;		
		cout< <end1;< th=""><th></th><th></th></end1;<>			
		}			
		void My_fun (int A, int B)	// Function 3		
		{			
		for (int I=1. ;I<=B ;I++) cout < <a*i< th=""><th>;</th><th></th></a*i<>	;		
		cout< <end1;< th=""><th></th><th></th></end1;<>			
		}			
		void My_fun (char T, int N)	// Function 4		
		for (int $I=1$; $I \le N$; $I++$) cout << T ;			
		cout< <end1;< th=""><th></th><th></th></end1;<>			
		}			
		void main ()			
		1 mt X = 1, Y = 4, Z = 3;			
		char $C=\#$;			
		$My_tun(C,Y);$			
		$My_{IUN}(X,Z);$			
		}			
		OP			
	UK				
		(b) Write any four differences between Constructor	and Destructor function		
		with respect to object oriented programming.			

(c)	Define a class Ele_Bill in C++ with the following descriptions:			
	Private members: Oname of type character array Onumber of type long No_of_units of type integer Amount of type float. Calc_Amount() This member function should calculate the amount as No_of_units*Cost .			
	Amount can be calculated according to the following conditions:			
	No of units CostFreeFirst 50 unitsFreeNext 100 units0.80 @ unitNext 200 units1.00 @ unitRemaining units1.20 @ unit			
	Public members:			
	 * A function Accept() which allows user to enter Cname, Pnumber, No_of_units and invoke function Calc_Amount(). * A function Display() to display the values of all the data members on the screen. 			
(d)	Answer the questions (i) to (iv) based on the following: class Faculty { int FCode; protected: char FName[20]; public: Faculty(); void Enter(); void Show(); }; class Programme { int PID; protected: char Title[30]; public: Programme(); void Commence(); void View(); }; class Schedule: public Programme, Faculty { int DD,MM,YYYY; rublic: };	(4)		
	Schedule();			
-------	--	--	--	--
	void Start();			
	void View();			
	};			
	void main()			
	1 Schedule S: //Statement 1			
	//Statement 7			
	}			
	J			
(i)	Write the names of all the member functions, which are directly accessible			
	by the object S of class Schedule as declared in main() function.			
(11)	Write the names of all the members, which are directly accessible by the			
	membertunction Start() of class Schedule.			
(iii)	Write Statement 2 to call function View() of class Programme from the			
(111)	object S of class Schedule.			
(iv)	What will be the order of execution of the constructors, when the object S			
	of class Schedule is declared inside main()?			
	OP			
	OR			
(d)	Consider the following class State :			
(d)	Consider the following class State : class State			
(d)	Consider the following class State : class State {			
(d)	Consider the following class State : class State { protected :			
(d)	Consider the following class State : class State { protected : int tp;			
(d)	Consider the following class State : class State { protected : int tp; public : State () (to 0)			
(d)	Consider the following class State : class State { protected : int tp; public : State() { tp=0;} usid_inate() { tp=0;}			
(d)	Consider the following class State : class State { protected : int tp; public : State() { tp=0;} void inctp() { tp++;}; int gettp(); { return tp; }			
(d)	Consider the following class State : class State { protected : int tp; public : State() { tp=0;} void inctp() { tp++;}; int gettp(); { return tp; } };			
(d)	Consider the following class State : class State { protected : int tp; public : State() { tp=0;} void inctp() { tp++;}; int gettp(); { return tp; } };			
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(d)	Consider the following class State : class State { protected : int tp; public : State() { tp=0; } void inctp() { tp++; }; int gettp(); { return tp; } }; Write a code in C++ to publically derive another class 'District' with the following additional members derived in the public visibility mode. <u>Data Members</u> : Dname string Distance float Population long int <u>Member functions</u> : DINPUT() : To enter Dname, Distance and population			

3	(a)	Write a user-defined function AddEnd4(int A[][4],int R,int C) in C++ to	(2)
		find and display the sum of all the values, which are ending with 4 (i.e., unit	
		place is 4).	
		For example if the content of array is:	
		24 16 14	
		19 5 4	
		The output should be	
		42	
		OR	
	(a)	Write a user defined function in C++ to find the sum of both left and right	
		diagonal elements from a two dimensional array.	
	(b)	Write a user-defined function EXTRA_ELE(int A[], int B[], int N) in C++	(3)
		to find and display the extra element in Array A. Array A contains all the	
		elements of array B but one more element extra. (Restriction: array	
		elements are not in order)	
		Example If the elements of Array A is $14, 21, 5, 10, 8, 4, 23, 11$	
		Example If the elements of Array P is $23, 8, 10, 4, 14, 11, 5$	
		Then output will be 21	
		Then output will be 21	
		OR	
	(b)		
	(-)	Write a user defined function Reverse(int A[] int n) which accepts an	
		integer array and its size as arguments (narameters) and reverse the array	
		Example : if the array is 10.20.30.40.50 then reversed array is	
		50,40,30,20,10	
	(c)	An array S[10] [30] is stored in the memory along the column with each of	(3)
		its element occupying 2 bytes. Find out the memory location of S[5][10], if	
		element S[2][15] is stored at the location 8200.	
		OR	
	(c)	An array A[30][10] is stored in the memory with each element requiring 4	
		bytes of storage , if the base address of A is 4500 , Find out memory	
		locations of A[12][8], if the content is stored along the row.	
		Write the definition of a member function Ing. Player() for a class	(4)
	(u)	COULTELIE in C + to add a Player in a statically allocated aircular guoue of	(4)
		DL A VEPs considering the following code	
		is already written as a part of the program.	
		is aneady whiten as a part of the program.	
		l long Pid:	
		char Pname[20].	

		<pre>}; const int size=10; class CQUEUE { Player Ar[size]; int Front, Rear; public: CQUEUE() { Front = -1; Rear = -1; } void Ins_Player(); // To add player in a static circular queue void Del_Player(); // To remove player from a static circular queue void Del_Player(); // To display static circular queue void Show_Player(); // To display static circular queue };</pre>	
		OR	
	(d)	Write a function in C++ to delete a node containing Books information ,from a dynamically allocated stack of Books implemented with the help of the following structure: struct Book { int BNo; char BName[20]; Book *Next; };	
	(e)	Convert the following Infix expression to its equivalent Postfix expression, showing the stack contents for each step of conversion. A/B+C*(D-E)	(2)
		OR	
		Evaluate the following Postfix expression : 4,10,5,+,*,15,3,/,-	
4	(a)	Write a function RevText() to read a text file "Input.txt " and Print only word starting with 'I' in reverse order . Example: If value in text file is: INDIA IS MY COUNTRY Output will be: AIDNI SI MY COUNTRY	(2)
		OR	
	(a)	Write a function in C++ to count the number of lowercase alphabets present in a text file "BOOKtxt".	

(b)	<pre>Write a function in C++ to search and display details, whose destination is "Cochin" from binary file "Bus.Dat". Assuming the binary file is containing the objects of the following class: class BUS { int Bno; // Bus Number char From[20]; // Bus Starting Point char To[20]; // Bus Destination public: char * StartFrom (); { return From; } char * EndTo(); { return To; } void input() { cin>>Bno>>; gets(From); get(To); }</pre>	(3)
	<pre>void show() { cout<<bno<< .="" <<="" <<fo="" <<from="">< endi, } };</bno<<></pre>	
	OR	
(b)	<pre>Write a function in C++ to add more new objects at the bottom of a binary file "STUDENT.dat", assuming the binary file is containing the objects of the following class : class STU { int Rno; char Sname[20]; public: void Enter() { cin>>Rno;gets(Sname); } void show() { count << Rno<<sname<<endl; <="" pre="" }="" };=""></sname<<endl;></pre>	
(c)	<pre>Find the output of the following C++ code considering that the binary file PRODUCT.DAT exists on the hard disk with a list of data of 500 products. class PRODUCT { int PCode;char PName[20]; public: void Entry();void Disp(); }; void main() {</pre>	(1)
	<pre>tstream In; In.open("PRODUCT.DAT",ios::binary ios::in); PRODUCT P; In.seekg(0,ios::end); cout<<"Total Count: "<<in.tellg() pre="" sizeof(p)<<endl;<=""></in.tellg()></pre>	

5	(c) (a)	In.seekg(//0*sizeof(P)); In.read((char*)&P, sizeof(P)); In.read((char*)&P, sizeof(P)); cout<<"At Product:"< <in.tellg() +="" 1;<br="" sizeof(p)="">In.close(); } Which file stream is required for seekg() ? Observe the following table and answer the parts(i) and(ii) accordingly</in.tellg()>						(2)			
		Table:F	Product	C		1			·		~ /
			Pno	Nam	ne	Otv	Pı	ırcha	seDat	e	
			101	Per	1	102	1	2-12	-2011		
			102	Penc	ril	201	2	21-02	-2013	3	
			103	Eras	er	90	0	9-08	-2010)	
			109	Sharpe	ener	90	3	1-08	-2012	2	
			113	Clip)S	900	1	2-12	-2011	-	
	(i) (ii)	Write th candida What is	te names o te keys. the degree	f most ap $\frac{1}{2}$ and car	ppropriate c dinality of t	olumns, v he above	which can the second se	be co	nside	red as	-
	(b)	Write S (viii), w	QL queries hich are ba	s for (i) t ased on t	to (iv) and find the tables.	nd outpu E R	ts for SQL	quer	ies (v) to	(4+2)
		TID	TNAME		CITY		HIREDA	TE	SAL	ARY	
		101	SUNAIN	4	MUMBA	[1998-10-	15	9000	00	
		102	ANAMIK	A	DELHI	CARC	1994-12-2	24	8000	00	
		103	MEENAK	(SHI	DELHI	JAKU	2001-12-	21 25	7800)0	
		101	RICHA		MUMBAI	[1996-01-	12	9500	00	
		106	MANIPR	ABHA	CHENNA	Ι	2001-12-	12	6900)0	
					COU	RSE		-			
		CID	CNA	ME	FEES	STAR	IDATE	TIE)		
		C201	AGD	CA	12000	2018-0	7-02	101			
		$\begin{array}{c} C202 \\ C203 \end{array}$	DCA	4	10000	2018-0	0-01	103			
		C203	DDTI)	9000	2018-0	9-15	102			
		C205	DHN		20000	2018-0	8-01	101			
		C206	O LE	VEL	18000	2018-0	7-25	105			

(i)	Display the Trainer Name, City & Salary in descending order of their Hiredate.	
(ii)	To display the TNAME and CITY of Trainer who joined the Institute in the month of December 2001.	
(iii)	To display TNAME, HIREDATE, CNAME, STARTDATE from tables TRAINER and COURSE of all those courses whose FEES is less than or equal to 10000.	
(iv)	To display number of Trainers from each city.	
(v)	SELECT TID, TNAME, FROM TRAINER WHERE CITY NOT IN('DELHI', 'MUMBAI');	
(vi)	SELECT DISTINCT TID FROM COURSE;	
(vii)	SELECT TID, COUNT(*), MIN(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1;	
(viii)	SELECT COUNT(*), SUM(FEES) FROM COURSE WHERE STARTDATE< '2018-09-15';	
6 (a)	State any one Distributive Law of Boolean Algebra and Verify it using truth table.	(2)
(b)	Draw the Logic Circuit of the following Boolean Expression: ((U + V').(U + W)). (V + W')	(2)
(c) (d)	Derive a Canonical SOP expression for a Boolean function $F(X,Y,Z)$ represented by the following truth table: $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(1)
(d)	F(X,Y,Z,W)= Σ (0,1,2,3,4,5,8,10,11,14)	(3)

7 (a)	Arun opened his e-mail and found that his inbox was full of hundreds of unwanted mails. It took him around two hours to delete these unwanted	(2)
	mails and find the relevant ones in his inbox. What may be the cause of his receiving so many unsolicited mails? What can Arun do to prevent this happening in future?	
(b)	Assume that 50 employees are working in an organization. Each employee has been allotted a separate workstation to work. In this way, all computers are connected through the server and all these workstations are distributed over two floors. In each floor, all the computers are connected to a switch. Identify the type of network?	(1)
(c)	Your friend wishes to install a wireless network in his office. Explain him the difference between guided and unguided media.	(1)
(d)	Write the expanded names for the following abbreviated terms used in Networking and Communications:(i) CDMA (ii) HTTP (iii) XML (iv) URL	(2)
(e)	Multipurpose Public School, Bangluru is Setting up the network between its Different Wings of school campus. There are 4 wings namedasSENIOR(S),JUNIOR(J),ADMIN(A)andHOSTEL(H). Multipurpose Public School, Bangluru	(4)

		WingAtoWing	gS	100m	
		WingAtoWing	зJ	200m	
		WingAtoWing	gΗ	400m	
		WingStoWing	J	300m	
		WingStoWing	βH	100m	
		WingJtoWing	Н	450m	
	Number o	of Computers installe	ed at various wi	ngs are as follows:	
		Wings	Number	rofComputers	
		WingA	20		
		WingS	150		
		WingJ	50		
		WingH	25		
(i)	Suggest t	he best wired med arious wings of Mul	ium and draw t tipurpose Publi	he cable layout to cSchool, Banglur	efficiently u.
(ii)	Namethe installed	most sui Justifyyour answ	tablewing wł zer.	nerethe Serve	ershouldbe
(iii)	Suggest a data secur	device/software and ity for the entire net	d its placement t twork of the Sch	hat would provide nool.	

Class XII Engineering Graphics (046) Sample Question Paper 2018-19

Time allowed: 3 Hours

Max. Marks: 70

General Instructions:

(i) Attempt all the questions.

(ii) Use both sides of the drawing sheet, if necessary.

(iii) All dimensions are in millimetres.

(iv) Missing and mismatching dimensions, if any, may be suitably assumed.

(v) Follow the SP:46-2003 revised codes(with first angle method of projection).

(vi) In no view of question2, are hidden edges or lines required.

(vii) In question 4, hidden edges or lines are to be shown in views without section.

(viii) Number your answers according to questions.

	Section-A	
1.	Answer the following Multiple Choice questions. Print the correct choice on your drawing sheet.	5
	(i) An inclined edge in isometric projection is drawn by	
	 a) Using angle of inclination b) Drawing a line at 90⁰ to the vertical c) Drawing a line at 30⁰ to the horizontal d) Using the co-ordinates 	
	(ii) Which one of the following is used to join shaft and hub?	
	 a) Gib b) Key c) Cotter d) Pivet 	
	(iii) The angle between the flanks of a BSW thread profile is	
	a) 55^{0} b) 60^{0} c) 30^{0} d) 45^{0}	
	(iv) cut on the outer surface of a circular rod are called	
	 a) The threads Crest thread b) Root thread c) Internal thread d) External thread 	

	(v) Which one of the following is represented by thin continuous lines?	
	a) Centre lines	
	b) Visible lines	
	c) Extension lines	
	d) Hidden lines	
_		
2.	(i) Construct an isometric scale.	4
	(ii) An inverted frustum of a square pyramid (base edges 40mm and 50mm, height 35mm) is resting on H.P with two of its base edges perpendicular to V.P. Draw its isometric projection. Show the axis and indicate the direction of viewing. Give all the dimensions.	7
	(ii) A sphere (diameter 70mm) is placed centrally on the top hexagonal face of a hexagonal prism (base edge 25mm, height 50mm). Two of the base edges of the prism are parallel to V.P. The common axis is perpendicular to H.P. Draw the isometric projection of the combination of solids. Show the common axis and indicate the direction of viewing. Give all the dimensions.	13
3.	(i) Draw to scale 1:1, the standard profile of a Knuckle Thread , taking enlarged pitch as 50mm. Give standard dimensions.	8
	OR	
	(i) Draw to scale 1:1, the front view and top view of a Square Headed Nut of diameter 30mm, keeping the axis vertical. Give standard dimensions.	
	(ii) Sketch freehand the front view and top view of a Pan Head Rivet of size M20, keeping the axis vertical. Give standard dimensions.	5
	OR	
	(ii) Sketch freehand the front view and side view of a Collar Stud of size M20, keeping the horizontal. Give standard dimensions.	
4.	Figure 1 shows the details of the parts of an SOCKET AND SPIGOT COTTER JOINT.	
	 Assemble these parts correctly, and then draw the following views using scale 1:1. (i) Front view, upper half in section. (ii) Left side view. Print the title and the scale used. Draw the projection symbol. Give 6 important dimensions. 	14 8 6
	OR	
	Figure 2 shows the assembly of a BUSHED BEARING . Disassemble the parts and then	
	draw the following views of the following components to scale 1:1, keeping their position	
	same with respect to H.P. and V.P.	
	(i) BODY	0
	a) Front view, left half in section.	9 7
	b) Side view.	7
	(II) BUSH	2
	a) From view. b) Side view in section	3 7
	Print the titles and the scale used. Draw the projection symbol. Give 6 important dimensions.	6





NOTE: FIGURE NOT TO SCALE . USE THE GIVEN DIMENSIONS FOR SOLUTIONS

Class XII Biotechnology (045) Sample Question Paper 2018-19

Time allowed: 3 Hours

Max. Marks: 70

2

General Instructions:

- (i) Question paper contains four sections-A, B, C and D.
- (ii) All questions are compulsory.
- (iii) There is internal choice in all sections. You have to attempt only one of the choices in such questions.
- (iv) Question numbers 1 to 6 are very short answer questions, carrying 1 mark each.
- (v) Question numbers 7 to 14 are short answer questions, carrying 2 marks each.
- (vi) Question numbers 15 to 25 are also short answer questions, carrying 3 marks each.
- (vi) Question numbers 26 to 28 are long answer questions, carrying 5 marks each.
- (vii) Use of calculators is not permitted. However, you may use log tables, if necessary.

SECTION-A

1. 4 copies of ds DNA are subjected to polymerase chain reaction. How many copies would be obtained after 20 cycles?

OR

How can we use LEU 2 gene as a selectable marker?

Specify the role of alkaline phosphatase in cloning. 1 2. 3. Specific activity increases during subsequent steps of a protein purification scheme. How can 1 you relate it with the purity of protein? 4. Animal cells in a culture medium were placed in a regular incubator used for growing bacterial 1 cells. Do you expect the animal cells to grow or not? 5. What is Gene Knock out? 1 1 6. What will be the consequence if a protein is having an altered structure?

OR

Expand and define PER?

SECTION-B

7. What are inverted microscopes and why are they useful in animal cell culture lab?

OR

Enlist the advantages and limitations of animal cell culture (two each).

- 8. Explain a visual method of screening the transformed host cells.
- **9.** Interspecific cross leads to formation of sterile seeds. What could be the reasons for the same **2** and how can normal development be achieved?

2

3

- 10. A protein from cell A and cell B is compared to find the whole protein pattern by a technique 2 developed by O'Farrel. Name the technique. State its principle.
- C.elegans is a eukaryotic organism with a genome of 97 Mb and about 20,000 genes. What organizational features of this genome are unusual when compared to the genomes of other eukaryotes, such as yeast and Drosophila?

OR

Annotation of human genome sequence reveals that our genome contains 30000- 33000 genes. Proteomic analysis indicates that human cells are capable of synthesizing more than 30,000 different proteins. How can this discrepancy be reconciled?

- 12. Foot and Mouth Disease Virus(FMDV) vaccine is made by growing the virus in animal cells, 2 harvesting the virus and inactivating it for vaccine formulations. Given the following data, calculate the weight and volume of the harvested virus from a bioreactor-
 - (a) Total bioreactor capacity= 1000 l(atleast 20% space must be kept for oxygen and CO_2)
 - (b) Number of animal cells= 10^{5} /ml
 - (c) Number of virus particles/animal cell=50

Assume the virus to be a sphere with a gram molecular weight of 10^6 Daltons (1 million) and radius = 1nm.

OR

Recombinant insulin is produced at 100 mg/L by E. coli at a cell concentration of 1 g/L. Calculate the volume of reactor (size of the fermentor) needed to produce 1 Kilogram of insulin in the following conditions:

- (a) When the cell concentration is 1 g/L and insulin production is 100 mg /L.
- (b) When the cell concentration is 50 g/L and insulin production is 100 mg /L.
- 13. Name the plant variations developed by long term callus and suspension culture in plants.2 How can such variations be used in crop improvement?
- 14. Foaming is a problem in most microbiological processes. Mention any two possible causes of 2 this problem? How can it be controlled?

SECTION-C

- **15.** What is Molecular Pharming? State its advantages (any 4)**3**
- **16.** Outline the process of creation of chimeric mouse by embryonic stem cell culture.

- 17. A specific DNA sequence is identified from a heterogeneous population of DNA molecules on 3 the basis of DNA-DNA hybridization.
 - a) Identify the technique.
 - b) Schematically depict the steps of DNA separation technique.
- Based on Genomic studies, why do people say that different species and organisms had a 3 common ancestor 100 million years ago.

OR

The publication of 'Atlas of Protein Sequences and Structure' under the editorship of Margaret O' Dayhoff was a pioneering effort. Why?

19. Describe the important parts of a mass spectrometer with diagram. Why has this technique 3 become so important in studying proteins?

OR

Give reasons for the following:

(i) Kappa casein is involved in micelle stabilization of milk proteins.

(ii)Whey protein detoxifies xenobiotics.

- (iii) Curd is used as pro-biotic.
- 20. What is meant by tissue engineering? Explain any two important medical applications of tissue 3 engineering.

OR

How do we analyse the growth characteristics of a particular cell line.

- 21. Enlist any six good laboratory practices, which need to be followed while working with 3 microbes.
- 22. With an example illustrate-(a) a blunt end cutter restriction enzyme(b) a sticky end cutter restriction enzyme.Which types of ends are better and why?
- 23. There are several concerns being raised in accepting transgenic crops. List any three of them. 3
- 24. How does the metagenomics approach help to identify novel genes present in the environment? 3 Explain the process.
- **25.** What are somatic hybrids? How are they produced?

OR

Though a genetically engineered crop is herbicide and pesticide resistant, it still requires use of agro chemicals. Mention at least three facts to justify the statement.

3

3

SECTION-D

26. Why do ddNTP's cause chain termination during Sanger's DNA sequencing method? Write 5 the DNA fragments formed by chain termination for the given original DNA strand-3' ATGCTAGC 5'.

OR

Distinguish between: (i) BAC and YAC (ii) pBR322 & pUC19 (iii) M-13 & lambda phage (iv) Cosmid & plasmid (v) Transformation and transfection

27. What is the hierarchical organization of protein structure? Indicate the nature of covalent and 5 non-covalent forces which determine the protein structure.

OR

How can one use the method of aqueous-two phase partitioning for the separation of proteins? Also suggest various efforts which may be taken to maximize protein stability during such separation.

28. Indicate the inheritance pattern, genomic location and mutation in any two diseases caused by single gene mutations which follow mendelian inheritance. Also, specify the genomic location in any two diseases resulting from gene polymorphisms with complex inheritance.

Class XII Accountancy Sample Question Paper 2018-19

Time allowed : 3 Hours

General Instructions:

1) This question paper contains two parts- A and B.

2) All parts of a question should be attempted at one place.

	Part – A	
	Accounting for Not-for-Profit Organizations, Partnership Firms and	
	Companies	
	Questions	Marks
1		i i i i i i i i i i i i i i i i i i i
	Land and Building (book value) ₹ 1,60,000 sold for ₹ 3,00,000 through a broker who charged 2% commission on the deal. Journalise the transaction, at the time of dissolution of the firm.	1
2	Why is it necessary to revalue assets and liabilities of a firm in case of admission of a partner?	1
	Or	-
	State any two reasons for the preparation of 'Revaluation Account' at time of admission of a partner.	
3	State the basis of accounting on which 'Receipt and Payment Account' is prepared in case of Not-for Profit Organisation.	1
	Or	-
	What will be the treatment of 'Subscription received in advance' during the current year in the Balance Sheet of a Not-For-Profit Organisation?	
4		
	One of the partners in a partnership firm has withdrawn ₹ 9,000 at the end of each quarter, throughout the year. Calculate interest on drawings at the rate of 6% per annum.	1
5	A, B and C are partners in a firm sharing profit and losses in the ratio of 3:2:1. B died on 1 st April, 2018. C, son of B, is of the opinion that he is the rightful owner of his father's share of profits, and the profits of the firm should be now shared between A and C equally. A does not agree. Settle the dispute between A and C by giving reason.	1
6	Differentiate between 'Equity Share' and 'Debenture' on the basis of risk involved.	1
	Or	
	What is meant by 'Employee Stock Option Plan'?	

Maximum Marks : 80

7	On April I, 2018, a firm had assets of ₹1,00,000 excluding stock of ₹20,000. The current liabilities were ₹ 10,000 and the balance constituted Partners' Capital Accounts. If the normal rate of return is 8%, the Goodwill of the firm is valued at ₹60,000 at four years purchase of super profit, find the actual profits of the firm.						
8	Jan Dhar each, out 30 th June the amou redempti	a Bank, an All India Financial Institution, had standing as at 31 st March, 2017. These deber , 2018. Pass necessary Journal Entries for red ant of Debenture Redemption Reserve to be c on.	1 10,00 ntures v lemptic reated	0, 12 % deben vere due for re on of debentur for the purpos	tures of ₹ 100 edemption on es. Also, state e of	3	
9	Complete	a the following Journal Entrice				2	
	Date	Particulars	L.F.	Amount (₹)	Amount (₹)		
	2018 April 1	Sundry Assets A/c Dr Dr To Sundry Liabilities A/c To Shiv Shankar Ltd. (Being Shiv Shankar Ltd. was taken over by Parvati Ltd. for a purchase consideration of ₹18,20,000) Shiv Shankar Ltd. Dr Dr To To 8% Debentures A/c (For paying Shiv Shankar Ltd. by issuing a bill of ₹ 20,000 and the balance was paid by issue of 8% Debentures of ₹ 100 each at a discount of 10%)		25,00,000 18,20,000 	7,80,000 18,20,000 20,000 		
	S. Singh interest. ' State Bar transaction i. When a security.	Limited obtained a loan of ₹ 5,00,000 from S The company issued ₹ 7,50,000, 10 % deber the of India as collateral security. Pass necess ons: company decided not to record the issue of 1	State Batures contures contures controls of the second sec	ank of India @ f ₹ 100/- eacl rnal entries fo bentures as co	 2 10 % h, in favor of bor the above bllateral 	1+2	

Particulars			Amount	t (₹)
i. Sports Material solo 50,000)	l during the yea	r (Boo	ok Value ₹ 56,000	
ii. Amount paid to cree	ditors for sports	mate	rial 91,000	
iii. Cash purchase of sp	orts material		40,000	
iv. Sports material as o	n 31.3.17		50,000	
v. Sports Material as c	on 31.3.18		55,000	
vi. Creditors for sports	material as on 3	31.3.1	7 37,000	
vii. Creditors for sports	material as on 3	31.3.1	8 45,000	
		-1		h
Bhavya and Sakshi are par 31 st March 2018 their Bal	thers in a firm,	snarin	g profits and losses in t	ne ratio of 3:2.0h
	Balance Sheet c	as und of Rha	vva and Sakshi	
	As at 31 ^s	st Mar	ch. 2018	
Liabilities	Amo	ount	Assets	Amount
Sundry Creditors	(x 12	.) 3 800	Furniture	
General Reserve	22	3 400	Land and Building	56,000
Investment Fluctuation	Fund 20	0.000	Investments	30.000
			Trada Dagaiyablas	18 500
Bhavya's Capital	50),000	Trade Receivables	10,500
Bhavya's Capital Sakshi's Capital	50),000	Cash in Hand	26,700
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v	50 4(1,47 to change their by decided that: alued at ₹ 20,0),000),000 7,200 profit	Cash in Hand sharing ratio to 1: 1 wi	26,700 1,47,200 th immediate
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings.	50 40 1,47 to change their by decided that: ralued at ₹ 20,0 m valued at ₹ 2 ot to be distribute ecessary journa),000),000 7,200 profit 00 4,000 ted be I entric	sharing ratio to 1: 1 wi tween the partners. es in the books of the fi	rm. Show
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings.	50 40 1,42 to change their by decided that: alued at ₹ 20,0 m valued at ₹ 20,0 m valued at ₹ 20 bt to be distribute ecessary journation are partners in as at March 31),000),000 7,200 profit 00 4,000 ted be 1 entric a firm , 2018	sharing ratio to 1: 1 wi sharing ratio to 1: 1 wi tween the partners. es in the books of the fi sharing profits and los was as follows: -	rm. Show
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala	50 40 1,47 to change their by decided that: ralued at ₹ 20,0 m valued at ₹ 20,0 m valued at ₹ 2 ot to be distribute ecessary journation are partners in as at March 31 nuce Sheet of D),000),000 7,200 profit 00 4,000 ted be 1 entric a firm , 2018 inesh,	Alvin and Pramod	18,500 26,700 1,47,200 th immediate rm. Show ses in the ratio of
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala	are partners in as at March 31 50 40 1,47 to change their y decided that: alued at ₹ 20,0 m valued at ₹ 20,0 m),000),000 7,200 profit 00 4,000 ted be 1 entrid a firm , 2018 inesh, st Mara	sharing ratio to 1: 1 wi sharing ratio to 1: 1 wi tween the partners. es in the books of the fi sharing profits and los was as follows: - Alvin and Pramod ch, 2018	rm. Show
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the fire c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala	are partners in as at March 31 are Sheet of D As at 31 Amount $(\frac{4}{4})$ $(\frac{4}{2})$),000),000 7,200 profit 00 4,000 ted be l entric a firm , 2018 inesh, st Marc As	A sharing profits and los was as follows: - Alvin and Pramod ch, 2018 sets	rm. Show
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala	are partners in as at March 31 unce Sheet of D As at 31 $(\overline{\xi})$),000),000 7,200 profit 00 4,000 ted be 1 entrid a firm , 2018 inesh, st Marc	sharing ratio to 1: 1 wi sharing ratio to 1: 1 wi tween the partners. es in the books of the fi sharing profits and los was as follows: - Alvin and Pramod ch, 2018 sets	26,700 1,47,200 th immediate rm. Show ses in the ratio of Amount (₹) 15,000
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the fire c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve	are partners in as at March 31 ance Sheet of D As at 31 (₹) 50,000 40,000),000),000 7,200 profit 00 4,000 ted be 1 entric a firm , 2018 inesh, st Marc As	Alvin and Pramod ch, 2018 sets	18,500 26,700 1,47,200 th immediate rm. Show ses in the ratio of Amount (₹) 15,000 67,000
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve Bills Pavable	are partners in as at March 31 ince Sheet of D As at 31 ⁵ Amount (₹) 50,000 40,000 10,000),000),000 7,200 profit 00 4,000 ted be 1 entrid a firm , 2018 inesh, st Marc As De Fiy	A sharing profits and los was as follows: - Alvin and Pramod ch, 2018 sters	18,500 26,700 1,47,200 th immediate rm. Show ses in the ratio of Amount (₹) 15,000 67,000 40,000
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve Bills Payable Dinesh's Capital	are partners in as at March 31 unce Sheet of D As at 31 (₹) 50,000 40,000 30,000),000),000 7,200 profit 00 4,000 ted be 1 entric a firm , 2018 inesh, st Marc As Fiz Inv Sto	A sharing profits and los sharing profits and los sharing profits and los was as follows: - Alvin and Pramod ch, 2018 sets botors ced Assets vestments ock	18,500 26,700 1,47,200 th immediate rm. Show ses in the ratio of Amount (₹) 15,000 67,000 40,000 25,500
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve Bills Payable Dinesh's Capital Alvin's Capital	are partners in as at March 31 unce Sheet of D As at 31 ⁵ Amount (₹) 50,000 40,000 40,000),000),000 7,200 profit 00 4,000 ted be 1 entrid a firm , 2018 inesh, st Mara As De Fiz Inv Sto Ca	Alvin and Pramod ch, 2018 sets btors cest in Hand	18,500 26,700 1,47,200 th immediate rm. Show ses in the ratio of Amount (₹) 15,000 67,000 40,000 25,500 36,000
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve Bills Payable Dinesh's Capital Alvin's Capital Pramod's Capital	are partners in as at March 31 mce Sheet of D As at 31 ⁴ (₹) 50,000 40,000 30,000 50,000),000),000 7,200 profit 00 4,000 ted be 1 entrid a firm , 2018 inesh, st Marc As Ev Fiz Inv Sto Ca De	sharing ratio to 1: 1 wi sharing ratio to 1: 1 wi tween the partners. es in the books of the fi sharing profits and los was as follows: - Alvin and Pramod ch, 2018 sets btors ked Assets //estments ock sh in Hand ferred Revenue	18,500 26,700 1,47,200 th immediate rm. Show ses in the ratio of Amount (₹) 15,000 67,000 40,000 25,500 36,000
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve Bills Payable Dinesh's Capital Alvin's Capital Pramod's Capital	are partners in as at March 31 unce Sheet of D As at 31 ⁵ Amount (₹) 50,000 40,000 30,000),000),000 7,200 profit 00 4,000 ted be I entric a firm , 2018 inesh, st Mara As Fiz Inv Sto Ca De Ex	Alvin and Pramod ch, 2018 sets btors ces hin Hand ch, red Assets ces hin Hand cherred Revenue penditure	$ \begin{array}{r} 18,300 \\ 26,700 \\ 1,47,200 \\ th immediate \\ rm. Show \\ \\ ses in the ratio of \\ \hline Amount \\ (₹) \\ 15,000 \\ 67,000 \\ 40,000 \\ 25,500 \\ 36,000 \\ 14,000 \\ $
Bhavya's Capital Sakshi's Capital The partners have decided effect. For the purpose, the a. Investments to be v b. Goodwill of the firm c. General Reserve no You are required to pass no workings. Dinesh, Alvin and Pramod 5:3:2.Their Balance Sheet Bala Liabilities Sundry Creditors General Reserve Bills Payable Dinesh's Capital Alvin's Capital Pramod's Capital	are partners in as at March 31 ince Sheet of D As at 31 ⁵ Amount (₹) 50,000 40,000 30,000),000),000 7,200 profit 00 4,000 ted be l entrid a firm , 2018 inesh, st Marc As De Fiz Inv Sto Ca De Ex Di	sharing ratio to 1: 1 wi sharing ratio to 1: 1 wi tween the partners. es in the books of the fi sharing profits and los was as follows: - Alvin and Pramod ch, 2018 sets btors ked Assets vestments ock sh in Hand ferred Revenue penditure nesh's Loan Account	$ \begin{array}{r} 18,300 \\ 26,700 \\ 1,47,200 \\ th immediate \\ rm. Show \\ ses in the ratio of \\ \hline Amount (₹) \\ 15,000 \\ 67,000 \\ 40,000 \\ 25,500 \\ 36,000 \\ 14,000 \\ 2,500 \\ $

the same year was < 2 ,	00,000. Sales s	hows a growth trend of 20	% and percentag	ge
of profit earning remain	ns the same.			
iii. Investments were sold	at par. Half of	the amount due to Dinesh	was paid to his	
executors and for the b	alance, they ac	cepted a Bills Payable.		
Prepare Dinesh's Capital acco	unt to be rende	red to his executors.		
Dranara Income and Expan	litura Account	from the following particu	lars of Vouth C	lub c
for the year and d on 31^{st} M	Inture Account	from the following particu		lub 6
for the year ended on 51 w	Beceints an	d Paymonts A/c		
for	the year ender	d on 31 st March, 2018		
Receipts	Amount	Payments	Amount	
I I I	(₹)		(₹)	
To Balance b/d	32.500) By Salaries	31.500	
To Subscription	52,500	By Postage	1.250	
2016-17 1.500		By Rent	9.000	
2017-18 60.000		By Printing and	,	
2018-19 1.800	63.300) Stationery	14.000	
To Donations		By Sports Material	11,500	
(Billiards table)	90.000) By Miscellaneous	,	
	- , - •	Expenses	3,100	
To Entrance Fees	1,100	By Furniture (1.10.201	7) 20,000	
To Sale of old		By 10% investment		
magazines	450) (1.10.2017)	70,000	
		By Balance c/d (31.3.18	8) 27,000	
	1,87,350		1,87,350	
	respectively.			
 iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T	ners in a firm sl partnership fir d to pay off th he financial po	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ psition of the firm on 31 st M	the ratio of 3:2 adeep was 1,000 as March, 2018 was	2. 6
 iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows:	ners in a firm sl partnership fir id to pay off th he financial po	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ osition of the firm on 31 st M	the ratio of 3:2 adeep was 1,000 as March, 2018 was	2. 6
 iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows:	ners in a firm sl partnership fir d to pay off th he financial po Balance As at Marc	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ psition of the firm on 31 st M e Sheet ch 31, 2018	the ratio of 3:2 adeep was 1,000 as March, 2018 was	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows:	respectively. rovided @ 109 hers in a firm sl partnership fir id to pay off th he financial po Balance As at Marc Amount (₹)	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ osition of the firm on 31 st M e Sheet ch 31, 2018 Assets	a the ratio of 3:2 adeep was £ 1,000 as March, 2018 was Amount (₹)	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors	respectively. rovided @ 109 hers in a firm sl partnership fir id to pay off th he financial po Balance As at Marc Amount (₹) 80,000	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ osition of the firm on 31 st N e Sheet ch 31, 2018 Assets Building	a the ratio of 3:2 adeep was ₹ 1,000 as March, 2018 was Amount (₹) 1,20,000	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors Mrs Pradeep's Loan	respectively. rovided @ 109 mers in a firm slip partnership fir id to pay off th he financial por Balance As at Marc Amount (₹) 80,000 40,000	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ position of the firm on 31 st M e Sheet ch 31, 2018 Assets Building Investment	a the ratio of 3:2 adeep was ₹ 1,000 as March, 2018 was Amount (₹) 1,20,000 30,600	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows:	respectively. rovided @ 109 hers in a firm sl partnership fir id to pay off th he financial po Balance As at Marc Amount (₹) 80,000 40,000 24,000	% p.a. on furniture. haring profits and losses ir m on 31 st March, 2018. Pr e liabilities. He was paid ₹ osition of the firm on 31 st M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000	a the ratio of 3:2 adeep was ₹ 1,000 as March, 2018 was Amount (₹) 1,20,000 30,600	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors Mrs Pradeep's Loan Rajesh's loan	respectively. rovided @ 109 mers in a firm slipartnership fir ad to pay off th he financial por Balance As at Marc Amount (₹) 80,000 40,000 24,000	% p.a. on furniture. haring profits and losses ir m on 31^{st} March, 2018. Pr e liabilities. He was paid bition of the firm on 31^{st} M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for	the ratio of $3:2$ adeep was 1,000 as March, 2018 was Amount ($\overline{\mathbf{\xi}}$) 1,20,000 30,600	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partread to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors Mrs Pradeep's Loan Rajesh's loan	respectively. rovided @ 109 mers in a firm slipartnership fir id to pay off th he financial por Balance As at Marc Amount (₹) 80,000 40,000 24,000	% p.a. on furniture. haring profits and losses in m on 31^{st} March, 2018. Pr e liabilities. He was paid \exists osition of the firm on 31^{st} M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for Doubtful Debts <u>4,000</u>	a the ratio of 3:2 adeep was £ 1,000 as March, 2018 was Amount (₹) 1,20,000 30,600 30,000	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partread to dissolve their deputed to realize the assets are commission for his services. The services of the services of the services of the services of the service of the serv	respectively. rovided @ 109 hers in a firm slipartnership fir id to pay off th he financial por Balance As at Marc Amount $(\overline{\mathbf{\xi}})$ 80,000 40,000 24,000 8,000	% p.a. on furniture. haring profits and losses ir m on 31^{st} March, 2018. Pr e liabilities. He was paid position of the firm on 31^{st} N e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for Doubtful Debts 4,000 Bills Receivable	the ratio of 3:2 adeep was \$ 1,000 as March, 2018 was (₹) 1,20,000 30,600 30,000 37,400	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors Mrs Pradeep's Loan Rajesh's loan Investment Fluctuation Fund	respectively. rovided @ 109 mers in a firm slip partnership fir id to pay off th he financial por Balance As at Marc Amount (₹) 80,000 40,000 24,000 8,000	% p.a. on furniture. haring profits and losses in m on 31^{st} March, 2018. Pr e liabilities. He was paid position of the firm on 31^{st} M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for Doubtful Debts 4,000 Bills Receivable Bank	the ratio of 3:2 adeep was 1,000 as March, 2018 was (₹) 1,20,000 30,600 30,000 37,400 6,000	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors Mrs Pradeep's Loan Rajesh's loan Investment Fluctuation Fund Capitals: Description	respectively. rovided @ 109 mers in a firm slipartnership fir id to pay off th he financial por Balance As at Marce Amount $(\overline{\mathbf{\xi}})$ 80,000 40,000 24,000 8,000	% p.a. on furniture. haring profits and losses in m on 31^{st} March, 2018. Pr e liabilities. He was paid sition of the firm on 31^{st} M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for Doubtful Debts 4,000 Bills Receivable Bank Profit and Loss A/c	the ratio of 3:2 adeep was \$1,000 as March, 2018 was (₹) 1,20,000 30,600 30,600 30,000 37,400 6,000 8,000	2. 6
iv. Depreciation to be p Pradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows: Liabilities Creditors Mrs Pradeep's Loan Rajesh's loan Investment Fluctuation Fund Capitals: Pradeep 42,000 Device the constant of the part	respectively. rovided @ 109 mers in a firm slipartnership fir ad to pay off th he financial por Balance As at Marce As at Marce As at Marce As (₹) 80,000 40,000 24,000 8,000	% p.a. on furniture. haring profits and losses ir m on 31^{st} March, 2018. Pr e liabilities. He was paid position of the firm on 31^{st} M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for Doubtful Debts 4,000 Bills Receivable Bank Profit and Loss A/c Goodwill	the ratio of $3:2$ adeep was \$1,000 as March, 2018 was Amount (₹) 1,20,000 30,600 30,600 30,000 37,400 6,000 8,000 4,000	2. 6
iv.Depreciation to be pPradeep and Rajesh were partr They decided to dissolve their deputed to realize the assets ar commission for his services. T as follows:LiabilitiesCreditors Mrs Pradeep's Loan Rajesh's loanInvestment Fluctuation Fund Capitals: Pradeep 42,000 Rajesh	respectively. rovided @ 109 mers in a firm slipartnership fir id to pay off th he financial por Balance As at Marc Amount $(\overline{\mathbf{x}})$ 80,000 40,000 24,000 8,000 8,000	% p.a. on furniture. haring profits and losses in m on 31^{st} March, 2018. Pr e liabilities. He was paid position of the firm on 31^{st} M e Sheet th 31, 2018 Assets Building Investment Debtors 34,000 Less : Provision for Doubtful Debts 4,000 Bills Receivable Bank Profit and Loss A/c Goodwill	the ratio of $3:2$ adeep was \$1,000 as March, 2018 was Amount (₹) 1,20,000 30,600 30,000 37,400 6,000 8,000 4,000	2. 6

	 Following terms and conditions were agreed upon: Pradeep agreed to pay off his wife's loan. Half of the debtor's realized ₹ 12,000 and remaining debtors were used to pay off 25% of the creditors. Investment sold to Rajesh for ₹ 27,000 Building realized ₹ 1,52,000 Remaining creditors were to be paid after two months, they were paid immediately at 10% p.a. discount Bill receivables were settled at a loss of ₹ 1,400 Realization expenses amounted to ₹ 2,500 	
15	 Mudit, Sudhir and Uday are partners in a firm sharing profits in the ratio of 3:1:1. Their fixed capital balances are ₹ 4,00,000, ₹ 1,60,000 and ₹1,20,000 respectively.Net profit for the year ended 31st March, 2018 distributed amongst the partners was ₹1,00,000, without taking into account the following adjustments: a) Interest on capitals @ 2.5% p.a.; b) Salary to Mudit ₹ 18,000 p.a. and commission to Uday ₹ 12,000 c) Mudit was allowed a commission of 6% of divisible profit after charging such commission. Pass a rectifying journal entry in the books of the firm. Show workings clearly. 	6
	Or	
10	 The partners of a firm, Alia, Bhanu and Chand distributed the profits for the year ended 31st March, 2017, ₹ 80,000 in the ratio of 3:3:2 without providing for the following adjustments: a) Alia and Chand were entitled to a salary of ₹ 1,500 each p.a. b) Bhanu was entitled for a commission of ₹ 4,000 c) Bhanu and Chand had guaranteed a minimum profit of ₹ 35,000 p.a. to Alia any deficiency to borne equally by Bhanu and Chand. Pass the necessary Journal entry for the above adjustments in the books of the firm. Show workings clearly. 	
16	 Anshika Ltd. issued applications for 2,00,000 equity shares of ₹10 each, at a premium of ₹4 per share. The amount was payable as follows: On application ₹ 6 (including ₹2 premium) On allotment ₹ 7 (including ₹2 premium) Balance on first and final call Applications for 3,00,000 shares were received. Allotment was made to all the applicants on pro-rata basis. Mehak to whom 400 shares were allotted, failed to pay allotment and call money. Khushboo who had applied for 300 shares failed to pay call money. These shares were forfeited after Final call. 400 of the forfeited shared (including all shares of Khushboo) were reissued @ ₹8 per share as fully paid up. Pass necessary journal entries in the books of Anshika Ltd. for the above transactions by opening calls in arrears and calls in advance account wherever necessary. 	8
	Or	

	Khyati Ltd. issued a prospect each payable as follows: ₹2 on application ₹3 on allotment ₹2 on first call ₹3 on final call Applications were reco the excess amount reco Hence allotment was n (i) To applicants f (ii) To applicants f (iii) To applicants f (iii) To applicants f (iii) To applicants f (iii) To applicants f Allotment was made and all s shares out of the group (iii), c immediately, after allotment. out of group (ii), failed to pay Satnaam as ₹ 7 paid up for pa Pass necessary journal entrie opening calls in arrears and ca	us inviting ap eived for 1,20 eived on acco nade as under for 20,000 sha for 40,000 sha for 60,000 sha for 60,000 sha hareholders e ould not pay Another share first call. 50 yment of ₹ 9 es in the book alls in advanc	plications for 80,000 equity 0,000 equity shares. It was de ount of over subscription till r: ares – in full ares – 10,000 shares ares – 50,000 shares except Tammana, who had ap allotment money. Her shares eholder Chaya ,who was allo 0% of Tamanna's shares were per share. s of Khyati Ltd. for the above e account wherever necessar	shares of ₹10 ecided to adjust allotment only. oplied for 2,400 were forfeited otted 500 shares e reissued to re transactions by cy.	
17	Divya, Yasmin and Fatima are respectively. The balance she	e partners in a et of the firm B As	a firm, sharing profits and lo as on 31 st March 2018 was a alance Sheet 5 at 31.3.2018	sses in 11:7:2 as follows:	8
	Liabilities	Amount (₹)	Assets	Amount	
	Sundry Creditors	70,000	Factory Building	7,35,000	
	Public Deposits	1,19,000	Plant and Machinery	1,80,000	
	Reserve fund	90,000	Furniture	2,60,000	
	Capital accounts	10,000	Stock Debtors 1 50000	1,45,000	
	Divva 5.10000		Less: Provision (30000)	1.20.000	
	Yasmin 3,00000		Cash at bank	1,59,000	
	Fatima <u>5,00000</u>	13,10,000			
		15,99,000		15,99,000	
	On 1.4.2018, Aditya is admitt capital of ₹4,50,000 and nece terms: i. Furniture of ₹2,40	ed as a partne ssary amount ,000 were to	er for one-fifth share in the p for his share of goodwill on be taken over Divya, Yasmin	rofits with a the following n and Fatima	
	equally.				
	11. A creditor of $₹$ 7,0	100 not record	ied in books to be taken into	account.	
	111. Goodwill of the fin	rm is to be va	lued at 2.5 years purchase of	average profits	
	of last two years.	the profit of t	the last three years were:		
	2015-16 ₹6,00	,000; 2016-1	7 ₹2,00,000; 2017-18 ₹6,00,	000	
	iv. At time of Aditya	s admission	r a smin also brought in 50,00	JU as tresh capital	
					1
1	v. Plant and Machine	ry is re-value	ed to $₹2,00,000$ and expense	s outstanding	
	v. Plant and Machine were brought down	n to $₹ 9,000$.	Prepare Revaluation Account	s outstanding it, Partners Capital	
	v. Plant and Machine were brought down Account and the b	n to ₹ 9,000. alance sheet o	Prepare Revaluation Account of the reconstituted firm.	s outstanding it, Partners Capital	

		As at 31	.3.18	
	Liabilities	Amount(₹)	Assets	Amount
				(₹)
	Capital Accounts:		Buildings	1,20,000
	Adil	40,000	Motor car	18,000
	Bhavya	30,000	Stock	20,000
	Cris	20,000	Investments	20,000
	General Reserve	10,000	Debtors	40,000
	Investment		Cash at Bank	12,000
	Fluctuation Reserve	7,000		
	Sundry creditors	1,23,000		
		2,30,000		2,30,000
	on the following terms and co i. 20% of the Genera debts ii. Motor car is to be iii. Stock is to be reva iv. Goodwill is to be years. Profits of th 2014-15 ₹13,000; 201 Cris was paid in full. Adil and he security of Building to pa Pass necessary journal entries Part I Under which type of activity statement?	nditions: al Reserve is to re- reduced by 5% lued at ₹ 17,500 valued at 3 years e last four years 5-16 ₹11,000; 20 d Bhavya borrowy y off Cris. 3: Analysis of Fin Option will you classify	emain as a reserve for bad and investment to be re-va ' purchase of the average p were: D16-17 ₹16,000 and 2017- ed the necessary amount fr pancial Statements n-I 'Rent received' while prep	and doubtful alued at ₹ 18,000 profits of last 4 18 ₹24,000 rom the Bank on
2	State any one advantage of pr	eparing Cash Flc	ow Statement.	
; ; 1	Under which major heads and following items be shown:-	l subheads of the	Balance Sheet of a compa	any, will the
2 1 1	Under which major heads and following items be shown:- i) Loose Tools	l subheads of the	Balance Sheet of a compa	any, will the
2 1 1	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents	l subheads of the ts Payable to emj	Balance Sheet of a compa	any, will the
1	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents iy) Interest on Calls in	l subheads of the ts Payable to emp a Advance	Balance Sheet of a compa	any, will the
1	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents iv) Interest on Calls in	l subheads of the ts Payable to emp 1 Advance	Balance Sheet of a compa	any, will the
	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents iv) Interest on Calls in Calculate amount of Opening he following figures:	l subheads of the ts Payable to emp 1 Advance Trade Receivabl	Balance Sheet of a compa ployees les and Closing Trade Rec	any, will the eivables from
	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents iv) Interest on Calls in Calculate amount of Opening he following figures: Trade Receivable Turnov	l subheads of the ts Payable to emp n Advance Trade Receivabl er ratio	Balance Sheet of a compa ployees les and Closing Trade Rec	any, will the eivables from 5 times
	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents iv) Interest on Calls in Calculate amount of Opening he following figures: Trade Receivable Turnov Cost of Revenue from Opera	l subheads of the ts Payable to emp 1 Advance Trade Receivabl er ratio ttions	Balance Sheet of a compa ployees les and Closing Trade Rec	any, will the eivables from 5 times ₹ 8,00,000
	Under which major heads and following items be shown:- i) Loose Tools ii) Retirement Benefi iii) Patents iv) Interest on Calls in Calculate amount of Opening he following figures: Trade Receivable Turnov Cost of Revenue from Opera Gross Profit ratio	l subheads of the ts Payable to emp n Advance Trade Receivabl er ratio ttions	Balance Sheet of a compa ployees les and Closing Trade Rec	any, will the eivables from 5 times ₹ 8,00,000 20%

From the following data, calculate Current ratio and	d Liquid Ratio
Liquid Assets	₹75,000
Inventories(Includes Loose Tools of ₹20,000)	₹ 35,000
Prepaid expenses	₹10,000
Working Capital	₹ 60,000

Particulars		Note no.	31.3.2018 (₹)	31.3.2017 (₹)
I EOUITY AND LIABILIT	IES			
1. Shareholder's Fu	inds:			
a. Share Car	pital		2.50.000	2.00.00
b Reserve a	and Surplus		80,000	60.00
2 Current Liabilitie	s.		00,000	00,00
a. Trade Pay	vable		70.000	40.00
u. Hudo Fu	Total		4.00.000	3.00.00
II ASSETS	I otur		4,00,000	5,00,00
1 Non-Current Ass	sets.			
a Fixed As	sets:			
i T	angihle Assets		1 60 000	1 20 00
i. I. ii In	tangible Assets		20,000	30.00
2 Current Assets	101010101000		20,000	50,00
2. Current Absols a Inventori	es		80.000	30.00
h Trade Rea	ceivables		1 20 000	1 00 00
c Cash and	Cash Equivalents		20,000	20.00
c. Cash and	Total		1 00 000	3 00 00
	Or			
From the following Statemen 31st March 2018, prepare Co	Or t of Profit and Loss mparative Statemen	of the Sal t of Profi	t & Loss.	year ended
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹)	of the Sal t of Profi zear ende	t & Loss. d 31st March, 2017-18(₹)	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000	of the Sal t of Profi z ear ende	<pre>chi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000</pre>	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses:	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000	of the Sal t of Profi z ear ende	chi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000	of the Sal t of Profi zear ende	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,00,000</pre>	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000	of the Sal t of Profi z ear ende	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,00,000</pre>	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000	of the Sal t of Profi ear ende	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,00,000 2,00.000</pre>	year ended 2018
From the following Statemen B1st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40%	Or t of Profit and Loss mparative Statemen ït & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000	of the Sal t of Profi zear ende	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,000,000 2,00,000</pre>	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40%	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000	of the Sal t of Profi zear ende	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,000,000 2,00,000</pre>	year ended 2018
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40% From the following Balance S AS-3 (revised) for the year er Particulars	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000 Sheets of Vishva Ltonding 31 st March, 20	of the Sal t of Profi zear ende d., prepar 18 Note	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 2,00,000 2,00,000 e Cash Flow St 31.3.2018</pre>	year ended 2018 atement as p 31.3.2017
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40% From the following Balance S AS-3 (revised) for the year er Particulars	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000 Sheets of Vishva Ltonding 31 st March, 20	of the Sal t of Profi zear ender d., prepar 18 Note No.	chi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,00,000 2,00,000 2,00,000 e Cash Flow St 31.3.2018 (₹)	year ended 2018 2018 catement as p 31.3.2017 (₹)
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40% From the following Balance S AS-3 (revised) for the year er Particulars I EQUITY AND LIABILI	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000 Sheets of Vishva Ltonding 31 st March, 20 TIES	of the Sal t of Profi /ear ende ////////////////////////////////////	chi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,00,000 2,00,000 2,00,000 e Cash Flow St 31.3.2018 (₹)	year ended 2018 2018 atement as p 31.3.2017 (₹)
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40% From the following Balance S AS-3 (revised) for the year er Particulars I EQUITY AND LIABILIT 1. Shareholder's Fu	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000 Sheets of Vishva Ltonding 31 st March, 20 TIES mds:	of the Sal t of Profi ear ende d., prepar 018 Note No.	<pre>khi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 2,00,000 2,00,000 e Cash Flow St 31.3.2018 (₹)</pre>	year ended 2018 2018 atement as p 31.3.2017 (₹)
From the following Statemen 1st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40% From the following Balance S AS-3 (revised) for the year er Particulars I EQUITY AND LIABILIT 1. Shareholder's Fu a. Share Ca	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000 Sheets of Vishva Ltonding 31 st March, 20 TIES inds: pital	of the Sal t of Profi ear ende d., prepar 18 Note No.	chi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 2,00,000 2,00,000 e Cash Flow St 31.3.2018 (₹) 1,02,000	year ended 2018 2018 atement as p 31.3.2017 (₹)
From the following Statemen 31st March 2018, prepare Co Statement of Prof Particulars Revenue from Operations Expenses: a) Employee benefit expenses b) Other Expenses Rate of Tax - 40% From the following Balance S AS-3 (revised) for the year er Particulars I EQUITY AND LIABILIT 1. Shareholder's Fu a. Share Caj b. Reserve a	Or t of Profit and Loss mparative Statemen it & Loss for the y 2016-17 (₹) 25,00,000 7,00,000 3,00,000 Sheets of Vishva Ltonding 31 st March, 20 TIES unds: pital and Surplus	of the Sal t of Profi /ear ende d., prepar 18 Note No.	chi Ltd. for the t & Loss. d 31st March, 2017-18(₹) 40,00,000 10,00,000 2,00,000 2,00,000 e Cash Flow St 31.3.2018 (₹) 1,02,000 36,000	year ended 2018 2018 atement as p 31.3.2017 (₹) 84,00 22,50

	a. Long Term Borrowings	2	60,000	48,000
3. C	Current Liabilities:		10.000	
	a. Short term Borrowings	3	10,000	5,000
	b. Trade Payable		28,800	36,000
	c. Short Term provisions	4	16,800	18,000
	Total		253,600	2,13,560
II ASSETS				
1. N	Ion-Current Assets:			
	a. Fixed Assets:	5	1 10 000	1 22 000
2 6	1. I angible Assets	5	1,18,800	1,32,000
2. C	urrent Assets		61.900	15 600
	a. Inventories	6	01,800	43,000
	D. Trade Receivables	0	35,000	27,000
	<u>c. Casil and Casil Equivalents</u>		39,400	0,300 2 13 560
	Notes to A an	ounts	255,000	2,13,500
Noto No	Particulars	ounts	21 2 201 8(≢)	21 2 2017/₹
1	Deserve and Surplus		51.5.2010(X)	51.5.2017(
1	Balance in Statement of F	Profit and	15,600	5,76
	LOSS Conorol Reserve		20,400	16.90
	General Reserve		20,400	10,80
	Long Torm Borrowings		30,000	22,30
2	10% Debentures		60,000	48.000
			60,000	48,000
3	Short- term Borrowings		00,000	
0	Bank Overdraft		10.000	5.00
			10,000	5,00
4	Short-term Provisions		10,000	2,000
•	Provision for Income Tax		16.800	18.00
			16,800	18,00
5	Tangible assets		10,000	10,000
-	Land and Building		96.000	97.20
	Plant and Machinery		22,800	34,800
			1 10 000	1 20 000
			1,18,800	1,32,00
6	Trade Receivables		1,18,800	1,32,00
6	Trade Receivables Debtors		1,18,800	1,32,00
6	Trade Receivables Debtors Bills Receivables		1,18,800 19,200 14,400	24,000 3,600
6	Trade Receivables Debtors Bills Receivables		1,18,800 19,200 14,400 33,600	24,000 3,600 27,60
6 \dditional Int	Trade Receivables Debtors Bills Receivables		1,18,800 19,200 14,400 33,600	24,000 3,600 27,600
6 Additional Int (a) Tax pa	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40	0	1,18,800 19,200 14,400 33,600	1,32,000 24,000 3,600 27,600
6 Additional Int (a) Tax pa (b) Depred	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,400 ciation on plant charged during the	0 year 2017	1,18,800 19,200 14,400 33,600	1,32,000 24,000 3,600 27,600
6 Additional Int (a) Tax pa (b) Depred (c) Additi	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40 ciation on plant charged during the onal debentures were issued on Ma	0 year 2017 urch 31,201	1,18,800 19,200 14,400 33,600 -18 was ₹14,400	1,32,000 24,000 3,600 27,600
6 Additional Int (a) Tax pa (b) Depres (c) Additi	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40 ciation on plant charged during the onal debentures were issued on Ma	0 year 2017 irch 31,201	1,18,800 19,200 14,400 33,600 -18 was ₹14,400	1,32,000 24,000 3,600 27,600
6 Additional Int (a) Tax pa (b) Depred (c) Additi	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,400 ciation on plant charged during the onal debentures were issued on Ma Part B: Computerised	0 year 2017 irch 31,201 d Account	1,18,800 19,200 14,400 33,600 -18 was ₹14,400 18 ing	1,32,00 24,00 3,60 27,60
6 Additional Int (a) Tax pa (b) Depred (c) Additi	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40 ciation on plant charged during the onal debentures were issued on Ma Part B: Computerised Option I on is used to compute loan repayme	0 year 2017 urch 31,201 d Accounti I ent schedul	1,18,800 19,200 14,400 33,600 -18 was ₹14,400 18 ing	1,32,000 24,000 3,600 27,600
6 Additional In: (a) Tax pa (b) Depred (c) Additi	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40 ciation on plant charged during the onal debentures were issued on Ma Part B: Computerised Option I on is used to compute loan repayme /alidation?	0 year 2017 arch 31,201 d Account I ent schedul	1,18,800 19,200 14,400 33,600 -18 was ₹14,400 18 ing le?	1,32,00 24,00 3,60 27,60
6 Additional In: (a) Tax pa (b) Depred (c) Additi	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40 ciation on plant charged during the onal debentures were issued on Ma Part B: Computerisee Option I on is used to compute loan repayme /alidation?	0 year 2017 urch 31,201 d Account I ent schedul	1,18,800 19,200 14,400 33,600 -18 was ₹14,400 18 ing le?	1,32,00 24,00 3,60 27,60 0
6 Additional In: (a) Tax pa (b) Depred (c) Additi Vhich functio	Trade Receivables Debtors Bills Receivables formation: aid during the year 2017-18 ₹14,40 ciation on plant charged during the onal debentures were issued on Ma Part B: Computerisee Option I on is used to compute loan repayme /alidation? Debtors	0 year 2017 arch 31,201 d Account I ent schedul er database	1,18,800 19,200 14,400 33,600 -18 was ₹14,400 18 ing le?	1,32,000 24,000 3,600 27,600

22	Give any four features of computerized accounting system.	4
	Or	-
	Give any four limitations of computerized accounting system	-
23	Explain any six features of Tally 9.0 software.	6

Class – XII Business Studies Sample Question Paper 2018-19

MM: 80

Time Allowed: 3hours

	Section A	Marks
1	"Successful organizations do not achieve their goals by chance but by following a deliberate process". Identify the process highlighted here.	1
2	Distinguish between Delegation and Decentralization on the basis of freedom of action.	
	Or	1
	Distinguish between Authority and Responsibility on the basis of Origin.	
3	Name the process of stimulating and inspiring people at work to accomplish desired objectives.	
	Or	1
	Name the 'on-the-job' method of training that is used to give training to plumbers.	
4	Define Marketing Management.	
	Or	1
	Define 'Grading' as a function of marketing.	
5	Mohit purchased a smart phone for ₹30,000 from a mobile phone seller on his verbal commitment that the smart phone will be replaced in case of any defect, within a span of six months. The phone started creating technical issues in spite of proper maintenance and upkeep of the phone. The seller denied taking any action on the complaint made by Mohit. Name the redressal agency under the Consumer protection Act where Mohit can file his complaint.	1
6	'The size of assets, the profitability and competitiveness are affected by one of the financial decisions'. State the decision involved with reference to the given statement.	1
7	In an organization, employees always feel that they are under enormous unnecessary stress, as the manager does not provide any information about future plans but simply instructs them what to do. He also does not listen to any of the suggestions given by the subordinates. Identify the type of leadership style followed by the manager in the above situation.	1
8	Mr. Mohan, Financial manager of ABC Ltd., has prepared the annual Statement of proposed expenditure to be presented in the Annual General Meeting. Identify the type of plan formulated by the financial manager.	1

	Section B	
9	State any three points of importance of directing function of management.	
	Or	3
	State any three measures to overcome the communication barriers.	
10	 Rahul decided to start a desert cooler manufacturing business. He sets the target of earning 20% profit on sales in the first year. He was very much concerned about the future prospects of the business, which were uncertain. For this, he gathered information from the potential market and analyzed that the demand forwall mounted coolers is increasing day by day. He used this information as the base for future planning. On the basis of the gathered information, he called a meeting in the following week to find new methods to achieve the objective. a) Identify the function of management involved in the above case. b) Enumerate the next two steps, which have been followed by Rahul that are related to the process of one of the functions of management. 	3
11	"The overall objective of SEBI is to protect the interest of investors and to promote the development of, and regulate the securities market." In light of the given statement, state any three objectives of SEBI.	
	OR	3
	"Financial markets play an important role in the allocation of scarce resources in an economy by performing important functions." In light of the given statement, state any three functions performed by Financial Market.	
12	'Delegation is not a process of abdication.' Comment	3
13	Mr. Rohit is into transport business. His buses are hired by schools for transportation of students. He is willing to expand and diversify his business to inter-state transportation purposes. Enumerate any six factors that will affect his fixed capital requirements.	3
	Section C	
14	The Government of India has recently come up with an amendment to Section 6 of the Payment of Wages Act 1936, to allow employers of certain industries to make payment through various electronics modes of payments. The amendment will be applicable to all the public sector undertakings for wages disbursement using e- payment options. This is another milestone in the direction to further push to cashless economy. Identify and explain any two dimensions of business environment which relate to the above mentioned case.	4

15	State any four differences between Primary market and Secondary Market.	
	Or	
	Differentiate between Capital Market and Money Market on the basis of :(a) Liquidity(b) Duration(c) Expected Return(d) Safety	4
16	 Aarushi buys a packet of dry cake from a cake shop without asking for the bill. The pack does not bear any information other than the name of shop. After reaching home she finds the cake to be stale. a) Identify the consumer right that has been violated. b) State any three responsibilities that a consumer must keep in mind while purchasing any good. 	4
17	State any four characteristics of good brand name.	
	Or	4
	State any four functions of Packaging.	
18	 Kavita recently joined as the human resource director of Arjun Vidyamandir School, a senior secondary educational institute. She observed that the school had an experienced medical team on its payroll. They regularly offered useful suggestions which were neither appreciated nor rewarded by the school authorities. Instead the school outsourced the task of maintenance of health records of the students and paid them a good compensation for their services. Because of this, the existing medical team felt disheartened and stopped giving useful suggestions. a) Identify the communication barrier discussed above. b) State the category of this communication barrier. c) Explain any other two communication barrier. 	4
19	 Sherya Ltd. is a large credit-worthy company manufacturing automobiles for the Indian market .It now wants to cater to the other market and decided to invest in new machines. For this, it requires long-term finance. It decides to raise funds by issuing equity shares. The issue of equity shares involves huge floatation cost. To meet the expenses of floatation cost the company decides to tap the money market. a) Name and discuss the money market instrument the company can use for the above purpose. b) What is the duration for which the company can get funds through this instrument? c) State any other purpose for which this instrument can be used. 	4
	Section D	
20	 Identify the technique of sales promotion used by the company in the following cases: (a) Purchase goods worth₹ 90,000 and get a holiday package of ₹10,000 free. (b) A company offers 40% of extra glucose in a pack of 1 Kg. (c) A mobile company offers a discount of ₹2,000 to clear off excess inventory. 	5

	 (d) A company offers a pack of 1 Kg of tea with a purchase of 5 kgs of sugar (e) On return of the wrapper, a customer gets ₹5 off on purchase of the same product. 	
21	State any five functions performed by the manager who is working at the middle level management.	
	Or	5
	State any five characteristics of Coordination.	
22	 Rudrakshi Ltd. is engaged in manufacturing high end luxury pens. The target production is 700 units daily. The company had been successfully attaining this target until three months ago. Over the last few month, it has been observed that daily productions varies between 600-650 units. I. Identify the function of management, which has been highlighted in the above context. II. Discuss the first four steps involved in the process of the function identified above. 	5
	Section E	
23	Differentiate between Functional structure and Divisional structure.	
	Or	6
	Distinguish between Formal organization and Informal organization.	
24	A public transport corporation has hired 2000 buses for the different routes for the passengers of metropolitan city. In order to fill vacancies, it advertised in the newspaper and number of applicants applied for the same. The company has to now undertake the process of selection to identify and select the best. Explain the first six steps involved in the process.	6
25	Flavours Ltd. was engaged in the business of making handmade chocolates. Lately, the business was expanding due to good quality and reasonable prices. As the demand was increasing, Flavours Ltd. decided to explore bakery products as well. In order to make bakery products the company directed its workforce to work overtime but this resulted in multiple problems. Due to increased pressure the efficiency declined and the workers had to take orders from more than one superior. Workers were overburdened and their health was also affected. Gradually the quality of the products begins to decline and market share also went down. The company realized that they had implemented changes without waiting for the required infrastructure. Identify and explain the principles/technique of Taylor/Fayol referred to in the above para.	6

Class XII Economics (030) Sample Question Paper 2018-19

MM: 80

General Instructions:

Time Allowed: 3 hours

- i. All questions in both sections are compulsory. However, there is internal choice in some questions.
- ii. Marks for questions are indicated against each question.
- iii. Question No.1-4 and 13-16 are very short answer questions carrying 1 mark each. They are required to be answered in one sentence.
- iv. Question No.5-6 and 17-18 are short answer questions carrying 3 marks each. Answers to them should not normally exceed 60 words each.
- v. Question No.7-9 and 19-21 are also short answer questions carrying 4 marks each. Answers to them should not normally exceed 70 words each.
- vi. Question No.10-12 and 22-24 are long answer questions carrying 6 marks each. Answers to them should not normally exceed 100 words each

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vii. Answers should be brief and to the point and the above word limit be adhered to as far as possible.

	SECTION A – MICROECONOMICS			
1	State the reason why Total Variable Cost (TVC) curve and Total Cost (TC) curve are parallel to each other.	1		
	Or			
	State the reason behind U-shape nature of Average Variable Cost curve.			
2	If the Total Revenue of a firm increases by ₹ 45,000 due to an increase in sale of Good X from 50 units to 65 units, then marginal revenue will be ₹?	1		
3	 A Production Possibility Curve would becurve if all the available resources in an economy are equally efficient to produce both the goods. (Choose the correct alternative) a) a straight line b) convex to origin c) concave to origin d) upward sloping 	1		
4	Which of the following is a variable cost?a) Salary of permanent staffc) licence feesb) rent of premisesd) wages	1		
	Or			
	If Total Variable Cost and Total Fixed Cost of producing 10 units are ₹500 & ₹200, the value of average cost would be? a) 50 b) 70 c) 20 d) 80			
5	Distinguish between Normative Economics and Positive Economics, with suitable examples.	3		
	Or			
	Why do central problems arise? Discuss briefly.			
6	Mr. Atal Singh is consuming two goods X and Y. If he is facing a situation of $\frac{MU_X}{P_X} > \frac{MU_Y}{P_Y}$, discuss how would he reach the level of equilibrium.	3		

7	Calculate and comment on nature of price elasticity of demand, if, with a rise in price of Good X from \gtrless 10 to \gtrless 12, the quantity demanded falls by 40%.			4		
	Or			-		
	'As the price of a goo increase in quantity answer.	od falls, the result demanded'. Do ye	ing increased purcl ou agree with the g	hasing power may I given statement? Gi	be a reason for ive reason for your	
8	Complete the follow	ing production sc	hedule:			
	Units of variable input	Total Physical Product (upits)	Average Physical Product (units)	Marginal Physical Products (units)		4
	1	10	10			
	2		11	12		
	3			8		
	4	35				
	5			-5		
9	Elaborate the price of	discrimination fea	ture of monopoly.			4
			Or			
	Why number of firms is limited in an oligopoly market? Explain.					
10	 a) Explain with the help of a hypothetical numerical example the assumption of diminishing marginal rate of substitution under the ordinal apporach of theory of consumer's behaviour. b) Why should marginal rate of substitution diminish for a stable consumer's equilibrium? 			4		
11	Suppose the market for Good X is in equilibrium. Explain the chain effect, if: a) increase in market demand is less than the decrease in market supply.			6		
	b) increase in m	arket demand is	more than the incre	ease in market sup	oly.	
12	Examine the effects of the following on the supply curve of a Good X, using suitable diagram: a) fall in own price of Good X.			6		
	b) rise in price o	of factor input pro	ducing Good X.			
			Or			
	Define Producer's Equilibrium. Discuss briefly, the conditions of producer's equilibrium, assuming that the producer can sell more units of the good by lowering the price.					
	SECTION B – MACROECONOMICS					
13	Calculate the value of	of money multiplie	er if the legal reser	ve requirements ar	e 20%.	1
14	What is money supp	ly?				1
	Or					
	What is meant by Reverse Repo Rate?]	

15	(choose the correct alternative) is a revenue receipt of the	1	
	 government. a) Funds raised by the government by issuing National Saving Certificates b) Sale of 40% shares of a public sector undertaking to a private enterprise c) Profits of LIC, a public enterprise d) Amount borrowed from Japan for construction of Bullet Train. 		
16	 Identify which of the following statements is true? a) Fiscal deficit is difference between planned revenue expenditure and planned revenue receipts b) Fiscal deficit is difference between total planned expenditure and total planned receipts c) Primary deficit is the difference between total planned receipt and interest payments. d) Fiscal deficit is the sum of primary deficit and interest payment. 	1	
17	Estimate the value of Aggregate Demand in an economy if: a) Autonomous Investment (I) = ₹100 Crore. b) Marginal Propensity to Save = 0.2 c) Level of Income (Y) = ₹4,000 crores. d) Autonomous Consumption Expenditure (c) = ₹50 Crore Or In an economy C= 200+ 0.5 Y is the consumption function where C is the consumption expenditure and Y is the national income. Investment expenditure is ₹400 crores. Is the economy in equilibrium at an income level ₹1500 crores? Justify your answer.	3	
18	Explain how the level of effective demand is attained in an economy if, Aggregate Demand is more than the Aggregate Supply.	3	
19	What is meant by problem of double counting? How this problem can be avoided?	4	
	Or		
	Discuss briefly, the circular flow of income in a two sector economy with the help of a suitable diagram.		
20	Elaborate 'economic growth' as objective of government budget.	4	
21	How the following tools can be used for credit control by the central bank in an economy: a) Open Market Operations b) Margin Requirements	4	

22	 a) State any two precautions that must be taken into consideration while estimating national income by value added method. b) In an economy, following transactions took place. Calculate value of output and value added by Firm B: i. Firm A sold to firm B goods of ₹ 80 crore; to firm C ₹ 50 crore; to household ₹ 30 crore and goods of value ₹ 10 crore remains unsold ii. Firm B sold to firm C goods of ₹ 70 crore; to firm D ₹ 40 crore; goods of value ₹ 30 crore were exported and goods of value ₹ 5 crore was sold to government. 	2	
	Or		
	Differentiate between National Income at Current Prices and National Income at Constant Prices. Which of the two presents a better view of the economic growth of economy and why?	6	
23	How an initial increase in investment affects the level of final income of the economy? Show its working with a suitable numerical example.		
24	a) According to recent media reports:	3	
	'USA has accused China of currency devaluation to promote its exports'. In the light of the given media report comment, how exports can be promoted through the Currency devaluation?		
	b) What is meant by Current Account Deficit (CAD) and Current Account Surplus (CAS)? State their significance.	3	

Class XII Home Science (064) Sample Question Paper 2018-19

Time allowed: 3 Hours

1.

Max. Marks: 70

1

1

General Instructions:
(i) All questions are compulsory.
(ii) There are in all 25 questions.
(iii) Question nos.1-6 are for 1 mark, to be answered in one or two lines.
(iv) Question nos.7-13 are of 2 marks, to be answered in 10-20 words.
(v) Question nos.14-15 are of 3 marks, to be answered in 20-30 words.
(vi) Question nos.16-21 are of 4 marks, to be answered in 30-50words.
(vii) Question nos.22-25 are of 5 marks, to be answered in 60-100 words.
(viii) Support your answer with suitable examples and figures wherever required.

Section-A

	OR	
	Find any two emotional changes in a 15 year old girl.	
2.	Suggest any two food items for an obese lactating mother	1
3.	List any two ways of bringing harmony in a dress of a two year old child.	1
4.	Mention any two advantages of using electric water filter at home.	1
5.	Identify any two effects of cool colour on the personality of a person.	1

OR

Judge any two qualities in a bed sheet in relation to its durability.

Write any two cognitive changes in 16year old boy.

6. Write any two ways of increasing savings.

Section – B

7. In what four ways you can modify the diet of an adolescent girl.2

OR

Suggest a low cost lunch for an adolescent boy.

- 8. Write down two positive and two negative impact of media on the identity of adolescents. 2
- **9.** Write the full form of DWCRA. What should be the annual income of a family benefitted from DWRCA.

10. Your classmate has started bunking classes because of peer pressure. In what four ways you 2 can help your friend.

OR

"Sex education should be provided in schools". Justify the statement with the help of two reasons.

- 11. List down four ways in which you can contribute to the various programmes of social 2 welfare and community development of the country after receiving Home Science education?
- 12. How will you identify a good soap? Give two advantages of washing clothes with soap. 2
- **13.** Explain the method of applying starch to stiffen cotton saree.

OR

2

3

Write four important points to be considered for storing heavy zari suit.

Section – C

- 14. Instruct your friend who is going to hostel of necessary precautions she should take while 3 laundering her woolen jackets.
- 15. Write any four advantages of saving money. What two factors your father should consider 3 while choosing a long term scheme?

OR

Your uncle wants to invest money in Public Provident Fund. Guide him three advantages and three disadvantages of this scheme.

Section – D

- Radhika wants to make a weekly expenditure diary. But she does not know the format of 4 the same. Help her in making the format and also explain any four advantages of maintaining record of expenditure.
- 17. Your sister is going to get married and she wants to buy jewelry and cosmetics for herself. 4 Which two standard marks she should check before buying and also suggest any three buying tips for each, which she should follow.

OR

You mother purchased a double door refrigerator online (internet). She found some problem with the functioning of the refrigerator, Company refused to change it. Explain her the procedure to file a complaint in Consumer Court.

18. What is the optimum temperature for the growth of bacteria? What six guidelines will you give to your food handler for storing food in refrigerator?
19. What do you mean by the term adulteration? Name two adulterant found in spices. What **4** four precautions one should follow while purchasing spices?

OR

Name one adulterant you will found in *besan* flour and *besan burfi* respectively. Write two health hazards of each and what four precautions one should take while buying the food item.

- 20. Age influence the selection of clothing". Explain with two suitable examples. What four points you will keep in mind while buying *Salwar Kameez* for your grandmother?
- 21. Sixteen your old Deesha is not taking interest in any class activities and remains isolated.4 What could be the possible reason for it? Write any three causes and three symptoms of this problem.

Section – E

- 22. Your father has recently retired from his job. He has started getting angry on small issues 5 frequently. Identify five causes of his anger and suggest five strategies to handle the situation.
- 23. Mrs. Sharma is the mother of six months old boy. Suggest three ways she can take care of 5 her diet along with appropriate reason. Write down four points she should consider while introducing weaning food to her child.

OR

Educate your pregnant cousin who lives in rural area about the importance of adding proteins and calcium in her diet. How much additional proteins and calcium is required by her? Write two sources of each nutrient.

- 24. What do you understand by real income? Define its two types and two ways of increasing 5 this income.
- 25. Write down any two criteria of each to check the quality of Hem, Seam, Placket, Zipper and 5 Pleats in readymade garments.

SAMPLE QUESTION PAPER PHYSICAL EDUCATION (048) CLASS XII (2018-19)

TIME ALLOWED: 3 HRS

GENERAL INSTRUCTIONS:

MAXIMUM MARKS: 70

- 1) The question paper consists of 26 questions.
- 2) All questions are compulsory.
- 3) Answer to question 1-11 carrying 1 mark should be in approximately 20- 30 words.
- 4) Answer to question 12-19 carrying 3 marks should be in approximately 80-100 words.
- 5) Answer to question 20-26 carrying 5 marks should be in approximately 150-200 words.

	SECTION – A	
1	Define Endurance.	1
2	What is food intolerance?	1
3	Define Asana.	1
4	Mention any one cause of ODD.	1
	Or	
	What is seeding?	
5	Briefly mention two advantages of Weight Training.	1
6	What is menstrual dysfunction?	1
	Or	
	What do you understand by Diabetes?	
7	Mention the two advantages of Harvard step test.	1
8	What is sarcolemma?	1
	Or	
	Explain the benefits of Pavanmuktasana	
9	Enlist the classification of sports injuries.	1
10	Define Projectile.	1
	Or	
	Differentiate between gross and fine motor skills	
11	Explain the Jung's classification of personality.	1
	SECTION – B	
12	Describe the advantages of league tournaments.	3
	Or	
	How composition of muscle fibers effect speed ?	

13	Olympic Games draw attention of the world towards the importance of physical education. It develops health and better citizens. The development of loyalty, brotherhood and team spirit takes place through participation in games. The various diversities due to different castes, racial differences, languages, cultures, the difference between countries widens the outlook of sports person. (a) What values do the Olympic Games teaches the sports persons? (b) According to you how Olympics is helping to create global unity? (c) What Olympic games develops?	3
14	Mention the sources of carbohydrates.	3
	Or	
	Elaborate the effects of exercise on size of the heart.	
15	Explain cognitive disability.	3
16	How dislocation can be managed?	3
17	Define Trajectory.	3
18	Explain the meaning of external motivation.	3
	Or	
	Explain any six changes due to ageing.	
19	Describe Fartlek training method.	3
	SECTION – C	
20	Draw a fixture of twenty six teams participating in the knockout tournament.	5
21	Explain the methods to prevent asthma.	5
22	Explain the factors affecting motor development.	5
	Or	
	Define friction in sports.	
23	Explain in detail on female athletes 'triad.	5
24	Explain the Barrow motor ability test.	5
25	Explain the physiological factors determining Strength and Speed.	5
26	Explain the types of coordinative abilities.	5
	Or	
	Explain the coping strategies.	
1		