

**D.A.V INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022-2023**

**Class XI**

**Subject: Biology**

**Maximum Marks: 70**

**Time: 3 Hours**

General Instructions:

1. All questions are compulsory.
  2. The question paper comprises of six sections: Section A, Section B, Section C, Section D, Section E and section F.
  3. Section A comprises of VSA including MCQs and Assertion reasoning based, Section B comprises of short answer type questions carrying 1 mark each, Section C comprises of Long answer type- I carrying 2 marks each, Section D comprises of Long answer type- II carrying 3 marks each, Section E comprises of Long answer type- III carrying 5 marks each, Section F comprises of 1 Case based question of 5 marks.
  4. There is no overall choice. However, internal choices have been provided in some questions.
  5. Draw diagrams where ever necessary.
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**SECTION-A**

- 1 In most simple type of cannal system of Porifera, water flows through which one of the following ways. 1
  - a) Spongocoel→ostia→osculum→exterior
  - b) osculum → Spongocoel →ostia→exterior
  - c) ostia→ Spongocoel →osculum→exterior
  - d) osculum →ostia→spongoceol→exterior
- 2 Question number 2 and 3 consist of two statements: Assertion (A) and Reason (R). 1

Answer the question by selecting the appropriate option given below :

  - (a) Both Assertion (A) and Reason (R) are true and Reason is the correct explanation of Assertion.
  - (b) Both Assertion (A) and Reason (R) are true and Reason is not the correct explanation of Assertion.
  - (c) Assertion (A) is true and Reason(R) is false.
  - (d) Assertion (A) is false but Reason (R) is true.

Assertion (A): SA node produces excitatory impulses in heart.  
Reason (R): SA node is self-excitatory.
- 3 Assertion(A): The inner mitochondrial membrane is highly folded 1

Reason(R): To increase the surface area for ATP synthesis.
- 4 Identify the given figure of a leaf 1
  - a) Simple leaf
  - b) Pinnately compound leaf
  - c) Palmately compound leaf
  - d) Both (a) and (b)

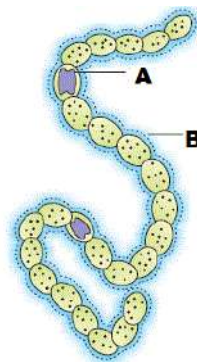


## SECTION-B

- 5 What do you mean by metagenesis? 1
- 6 Give two examples of roots in angiosperms or flowering plants where it develops from some other parts of the plant except radical. 1
- 7 How is IRV different from ERV? 1
- 8 You would have observed a dark reddish brown scum formed at the site of a cut or an injury over a period of time. Give reason. 1

## SECTION-C

- 9 Given below are the taxa of wheat. Arrange the taxa from low to high taxonomic categories (Hierarchy) 2  
Poaceae, Triticum , Angiospermae, Monocotyledonae, Poales , Aestivum
- 10 Observe the figure carefully. Mention the function of A? Identify the organism and its kingdom. 2

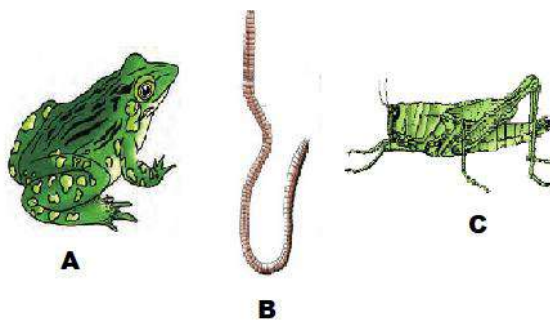


- 11 Given below are the figures of animals, observe them and answer the following. 2

a) Which among them can perform cutaneous respiration?

b) Which among them has open circulatory system?

c) Identify the phylum of A, B and C?



- 12 Name the following: 2
- a) An animal having canal system and spicules.
- b) A fish possessing poison sting
- c) Animal showing metagenesis
- d) An organ present in osteichthyes that regulates buoyancy
- 13 “Both lysosomes and vacuoles are endomembrane structures, yet they differ in terms of their functions”. How are they different? 2
- 14 Preety observed anaphase of mitosis and anaphase I of meiosis. 2  
Help her to distinguish between the above said stages of cell division.

OR

Give the event of cell cycle for the following

- a) Duplication of centrioles in animal cells.
- b) Cell cannot divide further.
- c) Movement of centriole (animal cell) towards the opposite pole during mitosis.
- d) Cell is metabolically active but cannot replicate

15 State the different modes of CO<sub>2</sub> transport in blood. 2

#### SECTION-D

16 Illustrate the taxonomical hierarchy with suitable examples of an animal. 3

17 Why the walls of diatoms are indestructible? Give two importances of diatoms in ocean. 3

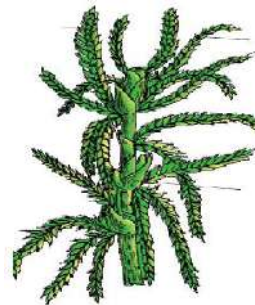
OR

“Chrysophytes are ecologically as well as economically valuable”.

Justify the statement with suitable examples.

18 Given below plant is moss. 3

- a) Identify the moss. Mention its 2 economic importance.
- b) Why are they called amphibians of plant kingdom?

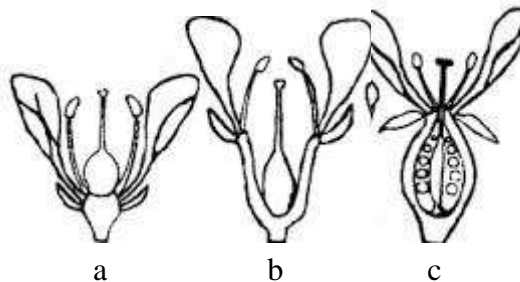


19 How do red algae differ from brown algae on the basis of their cell wall, pigments and stored food? 3

20 State the functions of the following- 3

- (i) Centromere
- (ii) Centrioles
- (iii) Golgi apparatus

21 3



Identify a, b, c and explain their characteristic features with one example of each.

22 The notochord like structure is found as stomochord in the animals of a specific phylum, an example of which is *Balanoglossus*. 3

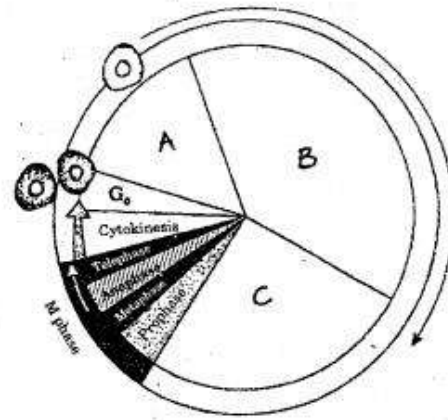
Assess whether the above given fact is correct or not. Also, write some other characteristics features of the animals belonging to the mentioned phylum.

OR

Give three reasons why snail and octopus are classified under the same phylum.

23 Explain the events that takes place in A,B and C.

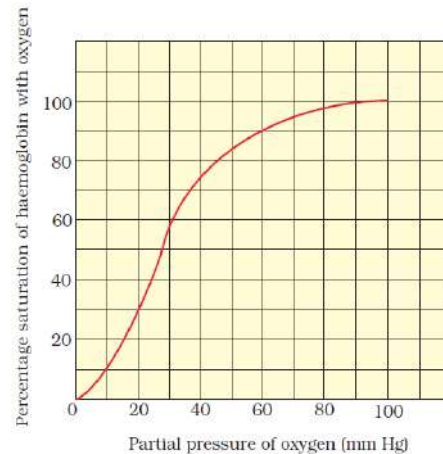
3



24 i. What are the factors which favours the formation of oxyhaemoglobin?

3

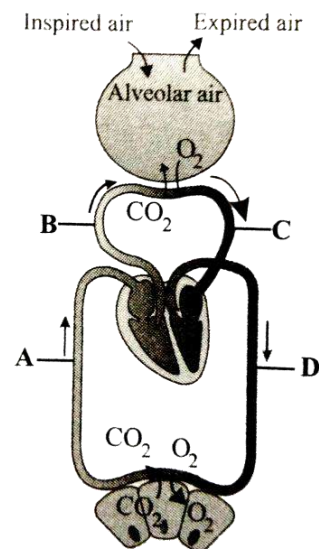
ii. What is the plotted graph depicted here?



25 i. Name –A, B, C and D

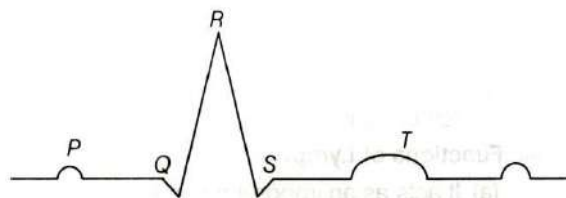
3

ii. What will be the  $pO_2$  and  $pCO_2$  in the atmospheric air compared to those in the alveolar air?



26 Study the electrocardiogram given below and answer the question

3



Name and describe the significance of different waves shown in the diagram.

## SECTION-E

- 27 Cell division accomplishes not only the segregation of duplicated chromosomes into daughter nuclei (karyokinesis), but the cell itself is divided into two daughter cells by the separation of cytoplasm called cytokinesis at the end of which cell division gets completed.

5

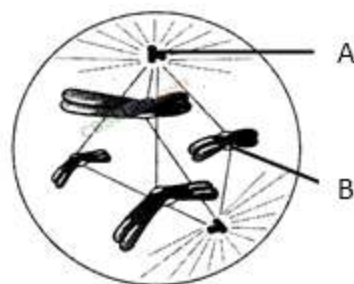
a) The cytokinesis of Animal cell is different from that of plant cell during mitosis?

Explain.

b) What would be the consequence if Cytokinesis does not occur during mitosis? Give two examples of cell for the same.

OR

Observe the figure carefully and answer the following



a) Identify A and the protein that covers the B.

b) An anther has 1200 pollen grains. How many pollen mother cells (pmc) must have been there to produce them?

c) A cell has 32 chromosomes. It undergoes mitotic division. What will be the chromosome number during metaphase? What would be the DNA content?

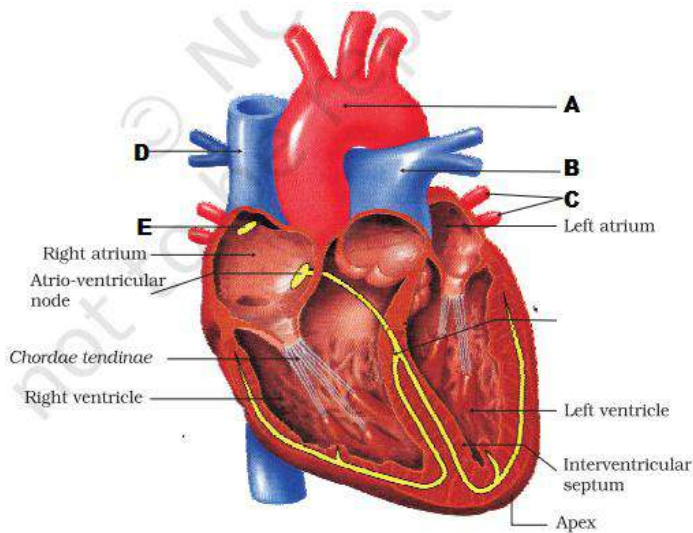
- 28 Given below is the section of heart. Observe the figure carefully and answer the following question

5

a) Identify B, C, D and E

b) How the function of D is different from B?

c) What will happen if E stops functioning?



OR

What is *Erythroblastosis foetalis*? What are the conditions for it? How is atherosclerosis different from angina pectoris?

## SECTION-F

29 Read the passage and answer the following: -

5

The fungi constitute a unique kingdom of heterotrophic organisms. They show a great diversity in morphology and habitat. You must have seen fungi on moist bread and rotten fruits. The common mushroom you eat and toadstools are also fungi. White spots seen on mustard leaves are due to a parasitic fungus. Some unicellular fungi, e.g., yeast are used to make bread and beer. Other fungi cause diseases in plants and animals; wheat rust-causing *Puccinia* is an important example. Some are the source of antibiotics, e.g. *Penicillium*. Fungi are cosmopolitan and occur in air, water, soil and on animals and plants. They prefer to grow in warm and humid places. With the exception of yeasts which are unicellular, fungi are filamentous. Their bodies consist of long, slender thread-like structures called hyphae. The network of hyphae is known as mycelium.

- i. What is coenocytic mycelium?
- ii. In which class of fungi *Puccinia* belongs to?
- iii. What are the steps involved in sexual reproduction of fungi?
- iv. Yeast is an unicellular fungi .Write the scientific name of it.
- v. What is significance of Deuteromycetes?

OR

Viruses are non-cellular organisms that are characterized by an inert crystalline structure surrounding the genetic material. These are obligate parasites and do not have a biosynthetic machinery. Viruses are ultramicroscopic nucleoprotein entities having variable size and shape. The basic structure of virus is composed of envelope, capsid, and nucleoid.

- a) Why viruses are called obligate parasite?
- b) Give example of one DNA and one RNA containing virus.
- c) Explain the structure of capsid present in viruses.
- d) How viroids are different from viruses?

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION – 2022-2023**

**CLASS: XI**  
**SUBJECT: APPLIED MATHEMATICS**

**MAX. MARKS: 80**  
**TIME: 3 HOURS**

**General instructions:**

- i) The question paper consists of five sections A, B, C, D and E. Section A contains 8 questions of 1 mark each. Section B contains 2 case study based questions (Q.No. 9 and 10). Each case study have 5 questions (MCQ type) of 1 mark each of which students have to attempt any four. Section C contains 10 questions of 2 marks each. Section D contains 8 questions of 3 marks each. Section E contains 4 questions of 5 marks each.
- ii) Internal choices have been provided in 3 questions of Section C, 3 question of Section D and 2 questions of Section E.
- iii) Use of calculator is strictly prohibited.
- iv) Log table will be provided.

**SECTION – A**

1. Convert the decimal number 231 to binary number . 1
2. Solve for  $x$  :  $2^{x+1} = 4^{x-3}$  1
3. Describe the set  $\{5, 25, 125, 625\}$  in set-builder form. 1
4. Perform the binary addition : 1  
$$\begin{array}{r} 101101 \\ + 11001 \\ \hline \end{array}$$
5. Find  $n\{P[P(P(\emptyset))]\}$ . 1
6. The average of four consecutive even numbers is 67. What is the product of smallest and the largest number ? 1
7. Find the odd man out in 2, 5, 10, 17, 26, 37, 50, 64, 82, 101. 1
8. Which of the following conclusions is / are true on the basis of the given statements : 1  
**Statements I** : Some rats are cats.  
**II** : Some cats are not dogs.  
**Conclusions I** : Some cats are rats.  
**II** : Some dogs are rats.

**SECTION – B**

9. **CASE BASE STUDY – 1 ( ATTEMPT ANY 4 QUESTIONS )** 4  
Rohit wishes to gift a conical show-piece to his friend Mohit . So, Rohit puts a cylinder within a cube of edge 'a' cm touching all the vertical faces . Then, he placed the conical show-piece inside the cylinder . The heights are same with the same base . Based on the above information answer the following questions :  
( i ) Volume of the cylinder is  
(A)  $\frac{11}{7} \times a^3 \text{ cc}$   
(B)  $\frac{22}{7} \times a^3 \text{ cc}$   
(C)  $\frac{11}{28} \times a^3 \text{ cc}$   
(D)  $\frac{11}{14} \times a^3 \text{ cc}$   
( ii ) Volume of the cone is  
(A)  $\frac{11}{14} \times a^3 \text{ cc}$   
(B)  $\frac{11}{28} \times a^3 \text{ cc}$

$$(C) \frac{11}{42} \times a^3 cc$$

$$(D) \frac{11}{7} \times a^3 cc$$

( iii ) Curved surface area of the cone is

$$(A) \frac{11}{14} \times a^2 \sqrt{5} cm^2$$

$$(B) \frac{11}{28} \times a^2 \sqrt{5} cm^2$$

$$(C) \frac{22}{7} \times a^2 \sqrt{5} cm^2$$

$$(D) \frac{11}{42} \times a^2 \sqrt{5} cm^2$$

( iv ) curved surface area of cylinder : curved surface area of cone is

$$(A) 8 : \sqrt{5}$$

$$(B) 4 : \sqrt{5}$$

$$(C) 2 : \sqrt{5}$$

$$(D) 1 : \sqrt{5}$$

( v ) volume of cube : volume of cylinder : volume of cone is

$$(A) 42 : 11 : 33$$

$$(B) 11 : 42 : 33$$

$$(C) 33 : 42 : 11$$

$$(D) 42 : 33 : 11$$

10. **CASE BASE STUDY – 2 ( ATTEMPT ANY 4 QUESTIONS )**

4

Let  $A = \{ 1, 2, 3, 5 \}$  and  $B = \{ 4, 6, 9 \}$ . A relation from A to B is

$R = \{ (x, y) : \text{the difference between } x \text{ and } y \text{ is odd, } x \in A, y \in B \}$ .

Based on the above given information answer the following questions :

( i ) The relation R in the Roster form is

$$(A) \{ (1,9), (2,9), (3,9), (5,6) \}$$

$$(B) \{ (2,4), (3,9), (5,6), (5,9) \}$$

$$(C) \{ (1,4), (1,6), (2,9), (3,4), (3,6), (5,4), (5,6) \}$$

$$(D) \{ (1,4), (1,6), (2,6), (2,9), (3,4), (3,6), (5,4), (5,6) \}$$

( ii ) The domain of R is

$$(A) \{ 1, 2, 3, 4, 5 \}$$

$$(B) \{ 1, 2, 3, 5, 6 \}$$

$$(C) \{ 1, 2, 3, 5, 6, 9 \}$$

$$(D) \{ 1, 2, 3, 5 \}$$

( iii ) The range of R is

$$(A) \{ 1, 2, 3, 5, 4, 6, 9 \}$$

$$(B) \{ 4, 6, 9 \}$$

$$(C) \{ 1, 2, 3, 5 \}$$

$$(D) \{ 2, 3, 4, 6, 9 \}$$

( iv ) The number of relations from A to B are

$$(A) 2^7$$

$$(B) 2^{12}$$

$$(C) 2^4 + 2^3$$

$$(D) 7^2$$

( v ) The number of non - empty relations from A to B are

$$(A) 7^2 - 1$$

$$(B) 2^3 + 2^4 - 1$$

$$(C) 2^{12} - 1$$

$$(D) 2^7 - 1$$



**SECTION – C**

11. If  $a^x = b^y = c^z$  and  $b^2 = ac$ , prove that  $y = \frac{2xz}{z+x}$  2

**OR**

If  $x = \sqrt[3]{28}$  and  $y = \sqrt[3]{27}$ , find the value of  $x + y - \frac{1}{(x^2 + xy + y^2)}$ .

12. The average of a, b and c is 11; average of c, d and e is 17; average of e and f is 22 and average of e and c is 17. Find the average of a, b, c, d, e and f. 2
13. A clock gain 4 seconds in 3 minutes and was set right at 9:00 AM. What time will it show at 11:00 PM on the same day? 2
14. A man, a woman and a boy can do a piece of work in 6, 9 and 18 days respectively. How many boys must assist one man and one woman to do the work in 1 day? 2

**OR**

Arun takes twice as much time as Varun and thrice as much time as Tarun to complete a piece of work. If working together, they can complete the work in 4 days, find the time taken by each of them separately to complete the work.

15. Let A and B be two sets such that  $n(A) = 35$ ,  $n(A \cap B) = 11$  and  $n((A \cup B)') = 17$ . If  $n(\xi) = 57$ , find (i)  $n(B)$  (ii)  $n(B - A)$ , where  $\xi$  is the universal set. 2
16. Find the odd man out in the following questions : 2
- (i) 16, 36, 64, 81, 100, 144, 196 (ii) BDF, GIK, LMN, OQS, TVX
17. Prove that :  ${}^{2n}C_n = \frac{2^n \{1.3.5.7 \dots (2n-1)\}}{n!}$  2
18. (i) If 'GOMTI' is coded as 74521 and 'YAMUNA' is coded as 835963, then how is 'GANGA' coded? 2
- (ii) If 'RAHUL' is coded as 22-5-12-25-16, then how will you code 'VIRAT'? 2
19. The sum of the three numbers in A.P. is  $-3$ , and their product is 8. Find the numbers. 2

**OR**

Find the sum of all three digit natural numbers, which are divisible by 7.

20. In certain language if 'INDIA' is coded as 'KMFHC', how 'AMERICA' is coded? 2

**SECTION – D**

21. What was the day of the week on 15<sup>th</sup> August, 1947? 3

**OR**

On what dates of April, 2015 did Friday fall?

22. If two circles touch externally. The sum of their areas is  $130\pi$  sq. cm and distance between their centres is 14 cm. Find the radii of the circles. 3
23. Let  $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ ,  $A = \{1, 2, 3, 4\}$ ,  $B = \{2, 4, 6, 8\}$  and  $C = \{3, 4, 5, 6\}$  3
- Find : (i)  $(A \cap C)'$  (ii)  $(B - C)'$  (iii)  $(A \cup B)'$ , where  $\xi$  is the universal set.

**OR**

Let  $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ ,  $A = \{2, 4, 6, 8\}$ ,  $B = \{2, 3, 5, 7\}$

Verify that : (i)  $(A \cup B)' = (A' \cap B')$  (ii)  $(A \cap B)' = (A' \cup B')$ , where  $\xi$  is the universal set.

24. Seven friends A, B, C, D, E, F and G are sitting around a circular table facing towards centre. F is second to the right of G. B is a neighbour of F but not of C. E is neighbour of C and sitting fourth at the right of G. D is sitting between E and A. Find : 3
- (i) who is fourth to the left of G? (ii) who is sitting left of G? (iii) who is the neighbour of B?

**OR**

Nine girls A, B, C, D, E, F, G, H and I are sitting in a row. D is second to the right of E and C is sitting third to the right of E. B is sitting at one end of the row. H is sitting between F and G. B is sitting third to the right of F. F is sitting to the immediate right of A. Find :

- (i) who are immediate neighbours of A ?
- (ii) who is sitting to the right of E?
- (iii) how many girls are seated between E and H ?
25. Find the sum of the following series :  $5 + 55 + 555 + \dots$  to n terms 3
26. How many arrangements can be made with the letters of the word INDEPENDENCE, if
  - (i) all the vowels occur together?
  - (ii) the word start with P ?
  - (iii) the word begin with I and end with P ?3
27. Read the information given below and answer the questions that follows : 3  
 A family of Ravi, Rekha, Gourav, Sourav, Payal, Mohit, Monica, Swasti and Shaurya consists of three generations. Ravi is the husband of Rekha and has two sons and one daughter Payal. Mohit is Rekha's son-in-law. Sourav is Payal's brother and Monica's brother-in-law. Gourav has two children.
  - (i) How Gourav is related to Mohit ?
  - (ii) How Sourav is related to Ravi ?
  - (iii) How Ravi is related to Shaurya?
28. If a is the A.M. of b and c and the two geometric means are  $G_1$  and  $G_2$ , then prove that  $G_1^3 + G_2^3 = 2abc$ . 3

#### SECTION – E

29. Using logarithmic tables, evaluate :  $\frac{7.93 \times (2.65)^2}{\sqrt{31.89}}$ . 5

**OR**

The population of a town in the year 2018 was 150,500. If the annual increase in population during three successive years be at a rate of 7%, 8% and 6% respectively, by using the concept of logarithms and anti-logarithms, find the population at the end of 2021.

30. In a survey of 25 students, it was found that 15 had taken mathematics, 12 had taken physics and 11 had taken chemistry, 5 had taken mathematics and chemistry, 9 had taken mathematics and physics, 4 had taken physics and chemistry and 3 had taken all the three subjects. Find the number of students that had taken : 5
  - (i) mathematics and physics but not chemistry
  - (ii) physics and chemistry but not mathematics
  - (iii) exactly one subject
  - (iv) none of the subjects.

**OR**

In a survey of 100 students, the number of students studying the various languages were found to be : Spanish only 18, Spanish but not French 23, Spanish and German 8, Spanish 26, German 48, German and French 8, no language 24. Find the number of students who were studying (i) French (ii) Spanish and French (iii) Spanish, French and German.

31. The number of terms of an A.P. is even; the sum of the odd terms is 24 and that of the even terms is 30, and the last term exceeds the first term by  $10\frac{1}{2}$ , find the number of the terms and the series. 5
32. What is the number of ways of choosing 4 cards from a pack of 52 playing cards ? In how many ways of these (i) four cards are of the same suit ? 5
  - (ii) four cards belong to four different suits?
  - (iii) four cards are faced cards
  - (iv) two are red cards and two are black cards ?
  - (v) cards are of the same colour?

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# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## MID TERM EXAMINATION

SESSION: 2022 – 2023

Class : XI

Subject : Accountancy (055)

Maximum Marks : 80

Time : 3 Hours

### General Instructions:

1. There are 32 questions in the question paper. All questions are compulsory.
2. Question nos. 1 to 20 are very short answer type questions carrying 1 mark each.
3. Question nos. 21 and 22 are short answer type–I questions carrying 3 marks each.
4. Question nos. 23 to 27 are short answer type–II questions carrying 4 marks each.
5. Question nos. 28, 29 and 30 are long answer type–I questions carrying 6 marks each.
6. Question nos. 31 and 32 are long answer type–II questions carrying 8 marks each.
7. There is no overall choice. However, an internal choice has been provided in 2 questions of three marks, 2 questions of four marks and 2 questions of eight marks.
8. All parts of a question are to be answered together.

Read the given below case study and answer questions from 1 to 4 on the basis of the same:  
Aman and Anuj are two friends who both have just attended their first class of Accountancy. The friends were intrigued by different branches of accounting and their widespread application.

Aman personally liked the branch of accounting in which fund flow statement and budgetary control is used and that branch helps in planning and controlling of operations.

As the concept of accounting was further explored, they began discussing the different users of accounting. Aman said that he finds it interesting that even the employees demand information relating to business.

Anuj said he finds more interesting that fact that even competitors want information on the relative strengths and weakness of the enterprise and for making comparisons.

Anuj further said that even accounting helps owners to compare one year's costs, expenses, and sales with those of other years.

However, they were quite shocked by the fact that management-worker relations were not taken into consideration in the accounting.

Meanwhile, both had an argument at the end of the discussion. Aman was saying that accounting is an art whereas Anuj was saying that accounting is a science. Their teacher came in and said something to them which made them stop the argument.

- |   |   |   |
|---|---|---|
| 1 | Anuj talked about which type of users of accounting?<br>(a) Internal Users<br>(b) External users<br>(c) Both (a) and (b)<br>(d) None of these   | 1 |
| 2 | Which branch of accounting is liked by Aman?<br>(a) Financial Accounting<br>(b) Management Accounting<br>(c) Cost Accounting<br>(d) Tax Accounting  | 1 |
| 3 | Which limitation of accounting is being talked by them?<br>(a) Omission of qualitative information<br>(b) Incomplete information<br>(c) Influenced by personal judgement<br>(d) Based on historical costs | 1 |

- 4 What might have their teacher said to solve their arguments? 1  
(a) Aman, please understand, Anuj is correct in this situation  
(b) Anuj, please understand, Aman is correct in this situation  
(c) Both are correct  
(d) None is correct
- 5 Assets (except Securities) may be valued under Ind-AS on 1  
(a) historical cost.  
(b) fair value.  
(c) both historical cost and fair value.  
(d) None of these.
- 6 According to which of the given below concepts, in determining the net income from 1  
business, all costs which are applicable to the revenue of the period should be charged  
against that revenue?  
(a) Matching Concept  
(b) Money Measurement Concept  
(c) Cost Concept  
(d) Dual Aspect Concept
- 7 Valuation of stock at lower of cost or net realisable value is an example of 1  
(a) Consistency Convention  
(b) Conservatism Convention.  
(c) Realisation Concept  
(d) Matching Concept.
- 8 During the life-time of an entity, accounting produces financial statements in accordance 1  
with which of the given below accounting concept?  
(a) Matching  
(b) Conservatism  
(c) Accounting period  
(d) Cost
- 9 X Ltd. Continues with the Written Down Value Method of depreciating machinery year 1  
after year due to  
(a) comparability.  
(b) convenience.  
(c) consistency.  
(d) All of these.
- 10 Credit purchase of furniture is recorded through 1  
(a) Transfer voucher.  
(b) Cash voucher.  
(c) Debit voucher.  
(d) Credit voucher
- 11 Bad Debts earlier written off and now received are credited to 1  
(a) Bad Debts A/c.  
(b) Bad Debts Recovered A/c.  
(c) Miscellaneous Income A/c.  
(d) Debtors A/c.
- 12 A ledger is known as a book of \_\_\_\_\_ entry. 1  
(a) Primary  
(b) Final or secondary  
(c) Both (a) and (b)  
(d) None of these
- 13 Lalit, who owed Rs. 20,000 became insolvent . 70 paise in a rupee was received from his 1  
estate. Bad Debts Account will be debited by  
(a) Rs. 20,000.  
(b) Rs. 10,000.  
(c) Rs. 6,000.  
(d) Rs. 14,000.

- 14** If closing capital is Rs. 2,50,000 and drawings during the year were Rs. 40,000, profits Rs. 80,000, then the opening capital will be Rs. \_\_\_\_\_ **1**
- (a) Rs. 2,10,000  
(b) Rs. 3,00,000  
(c) Rs. 3,10,000  
(d) Rs. 2,00,000
- 15** Goodwill account is a **1**
- (a) Personal Account.  
(b) Real Account.  
(c) Nominal Account.  
(d) None of these.
- 16** Bank Reconciliation Statement is started with **1**
- (a) Bank balance of the Cash Book.  
(b) Cash balance of the Cash Book.  
(c) Pass Book balance.  
(d) Bank balance of Cash Book or Pass Book balance.
- 17** Cash Book shows Rs. 1,000 as overdrawn. When bank statement is received, it was identified that one of debtors has deposited Rs. 400 into the account and bank charges of Rs. 20 had been debited to the account. Bank Statement balance is **1**
- (a) Rs. 1,420 (Dr.).  
(b) Rs. 620 (Dr.).  
(c) Rs. 4,300 (Cr.).  
(d) Rs. 1,700 (Dr.).
- 18** Bank Reconciliation Statement is prepared **1**
- (a) at the end of each week.  
(b) at the end of each month.  
(c) at the end of the accounting year.  
(d) whenever a bank statement is received.
- 19** A business receives its bank statement showing the closing balance as Rs. 8,500 overdrawn. It is found that there were unpresented cheques of Rs. 2,000 and uncredited deposits of Rs. 1,500. Overdraft as per Cash Book is **1**
- (a) Rs. 5,000.  
(b) Rs. 8,000.  
(c) Rs. 9,000.  
(d) Rs. 12,000.
- 20** Credit balance in the Bank pass book means ----- balance as per Cash book **1**
- (a) Credit.  
(b) Debit.  
(c) Zero.  
(d) None of these.
- 21** Explain the below given Principles : **3**
- (i) Business Entity Principle  
(ii) Money Measurement Principle  
(iii) Accounting Period Principle

OR

Explain the given below Fundamental Accounting Assumptions:

- I. Going Concern Assumption
- II. Consistency Assumption
- III. Accrual Assumption

- 22** X started a business on 1st April, 2021 with a capital of Rs. 50,000 and a loan of Rs. 25,000 taken from Y. During 2021-22, he had introduced additional capital of Rs. 25,000 and had withdrawn Rs. 15,000 for personal use. On 31st March, 2022 his assets were Rs. 1,50,000. Find his capital as on 31st March, 2022 and profit made or loss incurred during the year 2021-22. **3**

OR

	On 31 <sup>st</sup> March, 2022, the total assets and external liabilities were Rs. 1,00,000 and Rs. 3,000 respectively. During the year, the proprietor had introduced additional capital of Rs. 10,000 and had withdrawn Rs. 6,000 for personal use. He made a profit of Rs. 10,000 during the year. Calculate the capital as on 1 <sup>st</sup> April, 2021.	
23	Explain the qualitative characteristics of accounting information. OR Explain any four objectives of Accounting.	4
24	Explain any four important characteristics of GST	4
25	Differentiate between Journal and Ledger on any four points .	4
26	Enter the given below transactions in Purchases Book of M/s. Shiv Brothers, Mumbai: 2022 April 1 : Purchased goods from Joshi Bros., Mumbai vide Invoice No. 210: 10 Philips Tube lights @ Rs. 200 each 50 Crompton Bulbs @ Rs. 100 each Trade Discount is 10% April 6 : Purchased against cash 20 Havell's Tube lights @ Rs. 180 each less 10% Trade Discount April 10 : Purchased goods from Rajesh Electric Store, Delhi vide Invoice No. 18: 25 Heaters @ Rs. 800 each, 10% Trade Discount 15 Crompton Fans @ Rs. 1600 each, 10% Trade Discount Paid Packing Charges Rs. 100 April 15 : Purchased a Laptop for Rs. 50,000 from Computer Mart April 16 : Purchased goods from Supreme Electric Store, Delhi vide Invoice No. 125: 5 dozen Philips Bulbs @ Rs. 100 each 25 Power Plugs @ Rs. 80 each Trade Discount is 10% and freight charges are Rs. 75.	4
27	What do you mean by Bank Reconciliation Statement? Write down any three needs of Bank Reconciliation Statement. OR State any four reasons when the balance as per Cash Book will be higher than the balance as per Bank Pass Book or Bank Statement.	4
28	Briefly explain your understanding of Ind-AS. Which financial statements are prepared under Ind-AS?	6
29	Pass Journal entries for the following: (i) Interest due but not received Rs. 4,000. (ii) Salaries due to staff Rs. 25,000. (iii) Out of the rent paid this year, Rs. 2,000 relates to the next year. (iv) Provide 10% depreciation on furniture costing Rs. 5,000. (v) Goods used in making Furniture (Sale Price Rs. 2,000; Cost Rs. 1,500). (vi) Received commission of Rs. 10,000 by cheque, half of which is in advance.	6
30	Prepare Bank Reconciliation Statement as on 31 <sup>st</sup> March, 2022 from the given below information : Bank Statement showed a credit, i.e., favourable balance of Rs. 9,214. (i) On 29 <sup>th</sup> March, 2022 bank credited a sum of Rs. 1,650 in error. (ii) Cheques totaling Rs. 4,500 issued on 29 <sup>th</sup> March, 2022 were not cleared. (iii) Life Insurance Premium of Rs. 950, paid by a standing order was not recorded in the Cash Book. (iv) A cheque of Rs. 600 received, deposited and credited by bank, was accounted as a receipt in the cash column of the Cash Book. (v) Other cheques for Rs. 8,500 were deposited on 27 <sup>th</sup> March, 2022 but cheques for Rs. 6,000 were collected by the bank on 31 <sup>st</sup> March, 2022 and remaining on 2 <sup>nd</sup> April, 2022.	6
31	Explain the meaning of Accounting and also explain any 7 attributes ( features ) of accounting. OR Explain any 8 advantages of accounting.	8

2022

March 1 : Cash in Hand Rs. 15,000; Cash at Bank Rs. 50,000

March 3 : Purchased goods for cash Rs. 6,000.

March 5 : Deposited in bank Rs. 5,000.

March 8 : Cash sales Rs. 10,000.

March 10 : Cash withdrew from bank for office use Rs. 2,000.

March 12 : Received cash from Damini Rs. 3,000, allowed her discount of Rs. 100 against dues.

March 15 : Received cheque from Nimrat Rs. 2,000 and allowed her discount Rs. 75 against dues.

March 18 : Received a post dated cheque (dated: 23<sup>rd</sup> March, 2022) from Deepak for Rs. 5,000.

March 23 : Cheque received from Deepak deposited in the bank.

March 24 : Issued cheque of Rs. 2,500 to Chander, he allowed discount Rs. 125.

March 27 : Withdrew from bank for personal use Rs. 1,500.

March 28 : Sold goods to Ashok Mitra Rs. 40,000.

March 30 : Purchased goods from Chander Rs. 50,000.

March 31 : Received cheque from Ashok Mitra Rs. 2,000 and deposited in the bank.

OR

Prepare Accounting Equation from the given below transactions and also the Balance Sheet:

Particulars	Rs.
1. Manu started business with cash. Opened a Bank Account and transferred Rs. 4,00,000 from his Savings Account.	1,00,000
2. Purchased a building from Sohan for Rs. 12,00,000 paid by taking a loan from SBI. Rs. 10,00,000 and balance paid from bank account.	
3. Paid interest on loan Rs. 20,000 and instalment of Rs. 1,00,000.	
4. Purchased goods from Rohan on credit.	1,00,000
5. Goods returned to Rohan costing	20,000
6. Sold goods costing Rs. 40,000 for Rs. 50,000 on credit to Ram.	
7. Took goods from business for personal use.	10,000
8. Accrued interest.	5,000
9. Commission received in advance.	20,000
10. Cash Received from Ram	10,000

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022 – 2023**

**Class: XI**  
**Subject: BANKING (811)**

**Maximum Marks: 60**  
**Time: 3 Hours**

**General Instructions:**

1. Please read the instructions carefully.
2. This question paper is divided into three sections- Section A, Section B & Section C
3. Section A is of 10 marks on Employability skills.
  - a) Question numbers 1 to 6 are one mark questions. Attempt any four questions.
  - b) Question numbers 7 to 11 are two mark questions. Attempt any three questions.
4. Section B is of 50 marks on Subject specific skills.
  - a) Question numbers 12 to 43 are one mark questions. Attempt any 26 questions.
  - b) Question numbers 44 to 49 are two mark questions. Attempt any 3 questions.
  - c) Question numbers 50 to 52 are three mark questions. Attempt any 2 questions.
5. Section C is of 12 marks competency based questions.
  - a) Question numbers 53 to 57 are four mark questions. Attempt any 3 questions.
6. Do as per the instructions given in respective sections.
7. Marks allotted are mentioned against each section/question.

**SECTION-A**

**Answer any 4 questions out of the given 6 questions**

- |   |   |          |
|---|---|----------|
| 1 | What is the purpose of communication?<br>(a) Inform (tell someone about something)<br>(b) Influence (get someone to do something you want)<br>(c) Share thoughts, ideas, feelings<br>(d) All of the above | 1x4<br>1 |
| 2 | Which of the following method is used to receive information from the sender?<br>(a) Listening<br>(b) Speaking<br>(c) Telling<br>(d) Writing  | 1        |
| 3 | By which action can a sender send his or her messages?<br>(a) Listening<br>(b) Speaking<br>(c) Sleeping<br>(d) None of the above  | 1        |
| 4 | _____ is a feeling of certainty that something exists and is true, especially one without proof.<br>Choose the correct option.<br>(a) Belief<br>(b) Values<br>(c) Opinion<br>(d) Background               | 1        |
| 5 | _____ are principles or standards of behaviour; one's judgement of what is important in life.<br>(a) Belief<br>(b) Values<br>(c) Opinion<br>(d) Background  | 1        |
| 6 | Which of the following is a good choice of clothes when you go out to meet Office Boss?<br>(a) School uniform<br>(b) Formal shirt and pants<br>(c) Casual shirt and jeans<br>(d) None of these            | 1        |



<b>Answer any 3 question out of the given 5 questions</b>		2x3
7	Explain any two types of verbal communication with examples of each.	2
8	Explain any two importance of non-verbal communication	2
9	Explain any two importance of Visual Communication	2
10	Differentiate between Interests and Abilities.	2
11	Explain the Guidelines for Dressing and Grooming.	2
<b>SECTION-B</b>		
<b>Answer any 26 questions out of the given 32 questions</b>		1x26
12	Banking means: a) Accepting deposit only b) Lending loan only c) Investing money in the stock market. d) accepting, for the purpose of lending or investment	1
13	Which one of the following is the basic function of a banker? a) Distribution of Industrial product b) Producing Consumable product c) Issuing Shares d) Advise Clients	1
14	Which one of the following is not the example of a commercial bank? a) Bank of India b) Punjab National Bank c) Bank of Baroda d) Bardhaman Central co-operative bank	1
15	RBI has given permission to two organisations to become a Bank i.e. IDFC Limited and _____.	1
16	On _____, the Reserve Bank of India gave "in-principle" licences to eleven entities to launch payments banks a) 19 August 2015 b) 19 August 2014 c) 19 August 2016 d) 10 August 2015	1
17	Which one of the following is a payment bank? a) Max Bupa b) HDFC Life c) Aditya Birla Nuvo d) LIC(I)	1
18	Banking is defined in a) RBI ACT b) Banking Regulation Act c) Govt. of India Act d) Companies Act	1
19	Choose the correct reason for using bank account? a) Safety b) Convenience c) Interest earnings d) All of the above	1
20	A bank is a financial intermediary because a) it acts as the broker between depositor and borrower b) it acts as the link between the savers and the borrowers c) it is in the finance industry d) it is in the intermediary industry	1
21	Banker-Customer relationship starts when a) A customer opens an account b) A customer becomes a relative of a banker c) The banker and banker become friends d) None of the above	1

- 22 Which one of the following is a type of Private Sector Bank? 1  
a) Union Bank  
b) Punjab National Bank  
c) Bank of Baroda  
d) Industrial Credit and Investment Corporation of India
- 23 SLR stands for\_\_\_\_\_. 1
- 24 Which one of the following is a type of foreign banks? 1  
a) NABARD  
b) Industrial Credit and Investment Corporation of India  
c) Citibank  
d) IDBI
- 25 Which one of the following is a correct statement? 1  
a) RBI has 21 regional offices.  
b) RBI has 27 regional offices.  
c) RBI has 23 regional offices.  
d) RBI has 7 regional offices.
- 26 In \_\_\_\_\_ SBI merged State Bank of Jaipur (est. 1943) and State Bank of Bikaner (est.1944). 1  
a) 1963  
b) 1949  
c) 1955  
d) 1935
- 27 New Private Sector Banks: HDFC Bank, ICICI Bank, Axis Bank, etc... opened after\_\_\_\_\_. 1  
a) 2003  
b) 2013  
c) 1991  
d) 1998
- 28 Private sector banks are those whose equity is held by\_\_\_\_\_. 1  
a) Promoters  
b) Bank Directors  
c) Government  
d) Private shareholders
- 29 Which one of the following is the correct relationship between bank and customer when a customer depositing money in the Saving Account. 1  
a) Debtor- Creditor  
b) Creditor – Debtor  
c) Agent – Principal  
d) Lessor - Lessee
- 30 Which one of the following is the correct relationship between bank and customer when a customer keeping his valuables in the bank locker. 1  
a) Trustee - Beneficiary  
b) Creditor – Debtor  
c) Agent – Principal  
d) Lessor - Lessee
- 31 Debtor and Creditor is a type of: 1  
a) General Relationship  
b) Special Relationship  
c) Miscellaneous Relationships  
d) both (a) & (b)
- 32 Hypothecator and Hypothecatee is a type of: 1  
a) General Relationship  
b) Special Relationship  
c) Miscellaneous Relationships  
d) None of these

- 33 \_\_\_\_\_ is a person who acts as a caretaker of something. Banks take legal responsibility for a customer's securities. 1
- a) A custodian
  - b) A Guarantor
  - c) A Hypothecator
  - d) A Borrowers
- 34 Which one of the following is not an example of Special types of customers for a Banks? 1
- a) Partnership Firm
  - b) Trustees
  - c) Executors
  - d) literate Person
- 35 Reconciliation process is initiated \_\_\_\_\_. 1
- a) As a matter of routine to ensure both books (Cash & Pass Book) match
  - b) When there is an Exception
  - c) When there is Mismatch in Accounts (cash & Securities Assets)
  - d) When there is mismatch in Trial Balance
- 36 Minor's account can be opened in the guardianship of \_\_\_\_ 1
- a) Maternal Uncle
  - b) Uncle
  - c) Natural parents
  - d) None of these
- 37 Interest on savings bank accounts is calculated on \_\_\_\_\_ closing balance 1
- a) Daily
  - b) Weekly
  - c) Monthly
  - d) Quarterly
- 38 PPF stands for: 1
- a) Public Partnership Firm
  - b) Private Partnership Firm
  - c) Public Provident Fund
  - d) None of these
- 39 Full form of NEFT is \_\_\_\_\_ 1
- 40 "KYC" consists of 1
- a) Customer Identification
  - b) Customer Due Diligence
  - c) Customer Acceptance
  - d) All the three
- 41 Bullion Dealers come under the category of 1
- a) Low Risk
  - b) Medium Risk
  - c) High Risk
  - d) Any of them as per the judgment of the Bank
- 42 In a partnership company, a person who simply invests the money is known as \_\_\_\_\_ partner. 1
- a) Working Partner
  - b) Sleeping Partner
  - c) Normal Partner
  - d) Active Partner
- 43 When a joint account is operated by any one of the holder independently, mode of operation of the account is
- a) Jointly
  - b) Either or Survivor
  - c) Former or Survivor
  - d) Latter or Survivor

**Answer any 3 questions out of the given 5 questions**

2x3

- 44 Explain any two functions of Regional Rural Banks . 2
- 45 Explain any two functions of Co-Operative Banks 2
- 46 What is Small Finance Banks Explain with example. 2
- 47 Explain about Retail Banking Services with examples. 2
- 49 Explain about Wholesale Banking Services with examples. 2

**Answer any 2 questions out of the given 3 questions**

3x2

- 50 Explain any three objectives of nationalisation of banking sector. 3
- 51 Explain any three functions of Payment Bank. 3
- 52 Explain any three reasons for Termination of relationship between a banker and a customer. 3

**SECTION-C (Competency Based Questions)**

**Answer any 3 questions out of the given 5 questions**

4x3

- 53 Aditi is a manufacturer of LED bulb. She opened a current bank account with PNB in the name of her business she also opened a saving account of her name. She knows that bank is an institution that deals in money and its substitutes and provides other financial services. Banks accept deposits and make loans and derive a profit from the difference in the interest rates paid and charged, respectively.  
From the context of above statement explain any four basic functions of a commercial Bank 4
- 54 Monohar is a banker. He is a banking expert. A Banker gives clients financial advice on matters relating to loans, investments, securities and savings. Their financial advice not only helps clients to solve financial needs, but also increases their firm's profits. A number of bankers work in local financial institutions, while others work for international conglomerates and perform various duties and tasks.  
From the context of above statement explain any four basic functions of a banker. 4
- 55 A banking company is a company, which accepts deposits of money for the purpose of lending or investment from the public which is payable on demand (Savings Bank and Current Accounts) or otherwise (after a period like Fixed Deposits) and withdraw able by cheque (Savings Bank and Current Accounts) or otherwise (by other instruments like fixed deposits).  
From the context of above statement explain about banking system in India. 4
- 56 'Yes Bank' is giving an offer to their existing customers to give consumer Loans for purchasing household goods like Air conditioner, Fridge etc. and Personal loans for miscellaneous purposes like holiday, medical treatments etc. These are the types of Asset based products provided by the Bank.  
A banking company can offer the services to the government agencies, pension funds, and other institutional customers and to corporations. These services include cash management, Equipment leasing, large-sum loans, loan participation, merchant banking, and trust services.  
From the context of above statement differentiate between Retail and Wholesale Banking. 4
- 57 Sohan is a customer of State Bank of India Kolkata branch. He deposited Rs. 4,00,000 into Fixed Deposit Account. Bank Fixed Deposits are also known as Term Deposits. In a Fixed Deposit Account, a certain sum of money is deposited in the bank for a specified time period with a fixed rate of interest. The rate of interest for Bank Fixed Deposits depends on the maturity period. It is higher in case of longer maturity period. There is great flexibility in maturity period and it ranges from 15 days to 5 years. The interest can be compounded quarterly, half-yearly or annually and varies from bank to bank.  
From the context of above statement explain the different types of deposits with bank. 4

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# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## MID TERM EXAMINATION

SESSION: 2022 – 2023

**Class: XI**

**Maximum Marks: 80**

**Subject: Business Studies (054)**

**Time: 3 Hours**

### General Instruction:

- (a) This question paper contains **34** questions and contains **6** printed pages.
- (b) Marks are indicated against each question.
- (c) Answer should be brief and to the point.
- (d) Answers to the questions carrying 3 marks may be from 50 to 75 words.
- (e) Answers to the questions carrying 4 marks may be about 150 words.
- (f) Answers to the questions carrying 6 marks may be about 200 words.
- (g) Attempt all parts of the questions together.

1. \_\_\_\_\_ is kind of trade which involves the transport of goods through the sea, using ships. 1  
(a) Maritime Trade  
(b) Internal Trade  
(c) Foreign Trade  
(d) Terrestrial Trade
2. Rahul runs a pisciculture business in Ahmedabad and earns a good amount of profit. 1  
Identify the categories of industry in which the business of Rahul falls under  
(a) Extractive industries  
(b) Genetic industries  
(c) Analytical industries  
(d) Synthetical industries
- 3 Match the correct options of column – I with Column – II: 1

Column - I	Column - II
1. Economic Activities	A. Profit
2. Business Risk	B. Road Transport
3. Business	C. Production
4. Door to Door Service	D. Uncertainty

Choose the correct option from the given options:

- (a) 1 – A, 2 – B, 3 – C, 4 – D
  - (b) 1 – C, 2 – A, 3 – D, 4 – B
  - (c) 1 – C, 2 – B, 3 – D, 4 – A
  - (d) 1 – D, 2 – C, 3 – B, 4 – A
4. Sona Technologies Ltd. have developed a hand powered, portable washing machine that can clean your clothes in a flash. The company wants to provide information about new features, price, availability and brand name to the target market. Presently the company is only delivering their products in Japan but they are planning to tie up with Amazon for delivering it to other parts of world too. Name the auxiliary to trade which is used by Sona Technologies Ltd. to inform the target market about their product? 1  
(a) Transportation  
(b) Advertisement

- (c) Insurance  
(d) Warehousing
5. “This community derived power and prestige from guilds. Even kings were supposed to accept and respect the rules of these guilds.” Identify the guild being specified in the case. 1
- (a) Merchant corporations  
(b) Hakims  
(c) Mahajans  
(d) Nagarseths
6. Match the correct options of column – I with Column – II 1

Column - I	Column - II
1. Article of Association	A. It defines bye-law of the partnership firm
2. Memorandum of Association	B. It defines the relationship between company and outsiders
3. Prospectus	C. It defines the relationship between the members and the management
4. Partnership deed	D. It defines the invitation to the general public to subscribe the shares

Choose the correct option from the given options:

- (a) 1 – A, 2 – B, 3 – C, 4 – D  
(b) 1 – B, 2 – C, 3 – D, 4 – A  
(c) 1 – C, 2 – B, 3 – D, 4 – A  
(d) 1 – D, 2 – C, 3 – B, 4 – A
7. Ambreesh is a partner in a partnership form of business. He is one who allows the use of his name by the firm, but does not contribute to its capital. He does not take active part in managing the firm, does not share its profit or losses but is liable, like other partners, to the third parties, for the repayments of the firm’s debts. Ambreesh is a \_\_\_\_\_. 1
- (a) Active partner  
(b) Nominal partner  
(c) Secret partner  
(d) Sleeping partner
8. “Members may come and members may go but the company continues to exist”. Identify the related feature of joint stock company. 1
- (a) Separate legal entity  
(b) Perpetual Succession  
(c) Common Seal  
(d) Artificial Person
9. Which of the following statement is not correct? 1
- (a) A company can refer Table A if it does not prepare its articles of association.  
(b) A private limited company can have maximum 200 members.  
(c) A minor as a partner can inspect the books of the firm.  
(d) One person company is a company, which has one person as its member.
10. Which unique form of business we found only in India? 1
- (a) Cooperative Society  
(b) Joint Hindu undivided family business  
(c) Joint stock company  
(d) Partnership business

11. Read the following statements: Assertion and Reason. Choose one of the correct alternatives given below: 1
- Assertion (A): The managing committee elected by members of the Cooperative Society are generally not professionally equipped to handle the management function effectively
- Reason (R): Cooperative societies are unable to employ experts because of their inability to pay them high salaries.
- Alternatives:
- (a) Both A and R are true and R is the correct explanation of A.
  - (b) Both A and R are true and R is not the correct explanation of A.
  - (c) A is true but R is false.
  - (d) A is false but R is true.
12. The amount paid (monthly, quarterly, half-yearly or annually) by the insured to the insurer for getting compensation at the time of loss is known as \_\_\_\_\_. 1
- (a) Bonus
  - (b) Premium
  - (c) Sum Assured
  - (d) Commission
13. Which of the following is not applicable in the life insurance contract? 1
- (a) Conditional contract
  - (b) Indemnity contract
  - (c) Unilateral contract
  - (d) None of the above
- Read the following text and answer question No. 14 & 15 on the basis of the same:**
- Steel Authority of India Limited (SAIL) is carrying on various projects of manufacturing high quality steel. Majority of its shares are held by government of India. It is registered under Companies Act and enjoys all the characteristics of a company. The board of directors is appointed by the government. The board and the shareholders are responsible for the efficient working of the company. The company prepares its annual report and submits it to appropriate authorities.
14. Choose the type of public sector enterprise referred to above para. 1
- (a) Government company
  - (b) Statutory corporation
  - (c) Departmental undertakings
  - (d) None of the above
15. Government buys share of SAIL in the name of 1
- (a) President of India
  - (b) Prime Minister of India
  - (c) Minister of Heavy Industries
  - (d) Governor of State
16. All India Radio is an example of 1
- (a) Government company
  - (b) Statutory corporation
  - (c) Departmental undertakings
  - (d) None of the above
17. Which of the following is not a limitation of Departmental Undertaking? 1
- (a) Lack of flexibility
  - (b) Red Tapism
  - (c) Answerable to Parliament
  - (d) Delay in decision making

**Read the following text and answer question No. 18 & 19 on the basis of the same:**

Dhan-Dhan bank is a private sector bank offering various services to its customers. It offers various types of bank account options to its customers. Krishna being a businessman has chosen the type of account in which the deposits are the most liquid and there are no limits to the number of transactions or the amount of transactions in a day. On the other hand, his sister Subhadra has opened a type of account where she can conveniently deposit the money she saves. She has got cheque facility and lot of flexibility for deposits, whereas his brother Balaram opened a new account where he will deposit Rs. 1,000 per month for next three years on a fixed date.

18. Identify the type of account Krishna is opening with Dhan-Dhan bank. 1  
(a) Current Account  
(b) Fixed Deposit Account  
(c) Multi Option Deposit Account  
(d) Savings Bank Account
19. Subhadra has opened a type of account where she can conveniently deposit the money she saves.” Identify the type of bank account discussed above. 1  
(a) Recurring Deposit Account  
(b) Savings Bank Account  
(c) Current Account  
(d) Fixed Deposit Account
20. Which one of the following is not the form of e-banking services offered by banks? 1  
(a) Cheque  
(b) ATM  
(c) POS  
(d) EFTS
21. Distinguish between Economic Activities and Non- Economic Activities on the basis of – 3  
i. Purpose  
ii. Outcomes  
iii. Types
22. Harish Kalra, Dinesh and Mahesh Munjal were partners in a financing firm. Harish Kalra and Mahesh Munjal had gone for a meeting in London for analysing business prospects in that country. In the meanwhile, Dinesh invested a huge amount in buying shares of a new company by borrowing money from Mr. Goutam. This turned out to be bad deal as the shares price soon felt down. When Harish Kalra and Mahesh Munjal back they said they were not liable to pay to Mr. Goutam as they did not take the money. Were Harish Kalra and Mahesh Munjal right in doing so? Under which aspect of partnership are they bound? State and explain the identified aspect. 3
23. Reserve Bank of India, State Bank of India, Life Insurance Corporation of India, Unit Trust of India, and Employees State Insurance Corporation are some examples of one of the form of the Public Sector Enterprises. 3  
Name the Enterprise highlighted above. State and explain its two features.

**OR**

Some organisations are directly attached to a Ministry of the Central or State Government and are under the direct control of the concerned Ministry. The business decisions are thus influenced by political consideration.

- a. State the type of enterprise come under this category.
- b. State and explain its two features.



24. Armaan gets his house insured against fire for Rs. 10 lakh with an Insurer A and for Rs. 5 lakh with an Insurer B. A loss of Rs. 3 lakh occurred. How much compensation can he claim from A & B & Why? 3
- OR**
- Write the full form of
- a) EFT
  - b) POS
  - c) RTGS
25. Merchant corporation is a firm involved in wholesale trade, especially with foreign countries or supplying goods to a particular trade. 4  
Write briefly such merchant corporation that existed in India during medieval period.
- OR**
- Briefly explain any four characteristics of business.
26. It is concerned with the buying and selling of goods and services within the geographical boundaries of a country. In this type of trading both the buyer and seller belong to the same country. 4  
Identify and explain the type of trade mentioned in the above statement.
- OR**
- Compare Business and Profession on the basis of Code of conduct, objectives, Qualification and transfer of interest.
27. If registration is optional then why partnership firms willingly go through this legal formality and get themselves registered? Explain. 4
- OR**
- Briefly explain the following term
- i) Secret Partner
  - ii) Karta
  - iii) Oligarchic Management
  - iv) Minimum Subscription of shares
28. Explain any four features of Joint Stock Company. 4
- OR**
- Difference between Memorandum of Association and Articles of Association.
29. 'You must have consumed soft drinks like Coco – Cola and Pepsi.' Explain any four features of such types of companies. 4
- OR**
- Name the business organisation in which a project or service is financed and operated through a partnership of government and one or more private enterprise. Explain any four features of such type of business organisation.
30. Gouravi has decided to setup a dairy food processing unit in Durgapur. While working on her plan, she realized very soon that a business enterprise is greatly dependent on specialized business services. 4  
Explain briefly any two such specialized business services which are indispensable for a business enterprise.
31. Explain the three main objectives of business. 6
32. "It works with the principle of each for all and all for each." 6  
Name the form of business organisation and explain any five types of this business organisation.

33. Distinguish between Private Sector Enterprise and Public Sector Enterprise 6

**OR**

Explain any four features of Government Company. Mention any two points in order to show the suitability of such Company.

34. Identify and Explain the various types of Postal Services highlighted in the following situations: 6

- i. It is a service in which mail is registered by the post office at the time of sending, in order to assure safe delivery.
- ii. It is a service which provides time-bound and express delivery of letters, documents and parcels across the nation and around the world.
- iii. It is a service for sending articles from one place to another through the post.
- iv. It is a certificate issued by the post office on prescribed fee, when the sender wants to have a proof that he has actually posted the letters.

**OR**

Identify and Explain the principle of insurance is highlighted in the following statement:

- i. The insurer and the insured should disclose all material facts related to the contract.
- ii. Insurer is not liable for any uninsured cause or perils.
- iii. Insured must have some economics interest in the subject matter of insurance contract.
- iv. Insured is entitled to recover the loss suffered by him, up to the limit of policy amount.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022-2023**

**Class: XI**  
**Subject: CHEMISTRY**

**Maximum Marks: 70**  
**Time: 3 Hours**

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**General Instructions:**

**Read the following instructions carefully and strictly follow them.**

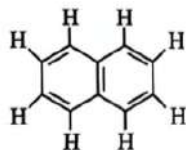
- (i) This question paper contains 33 questions in 6 printed pages. All questions are compulsory.
- (ii) Section A- Q.No. 1 to 7 are MCQ, Q. No. 8 to 10 are Assertion – Reason type questions and Q. No. 11 to 14 are very short answer type questions, all carrying 1 mark each.
- (iii) Section B - Q.No. 15 to 21 are short answer type questions carrying 2 marks each.
- (iv) Section C - Q.No. 22 to 30 are short answer type questions carrying 3 marks each.
- (v) Section D - Q.No. 31 and 32 are long answer type questions carrying 5 marks each.
- (vi) Section E - Q.No. 33 is a case-based question carrying 5 marks.
- (vii) There is no overall choice. However, internal choices have been provided in two questions of 2 marks, three questions of 3 marks and both questions of 5 marks. You have to attempt only one of the choices in such questions.
- (viii) Use of log tables and calculators is not allowed.

**SECTION-A**

**Q.No.1 to 7 are multiple choice questions. Each question has one correct option. Choose the correct option.**

- 1. An aqueous solution of 6.3 g of oxalic acid dihydrate is made up to 250 mL. The volume of 0.1M NaOH required to completely neutralize 10 mL of oxalic acid solution is 1
  - A. 40 mL
  - B. 20 mL
  - C. 10 mL
  - D. 4 mL
- 2. Which of the following sets of quantum numbers represents highest energy of an atom? 1
  - A.  $n=3, l=0, m=0, s=+\frac{1}{2}$
  - B.  $n=3, l=1, m=1, s=+\frac{1}{2}$
  - C.  $n=3, l=2, m=1, s=+\frac{1}{2}$
  - D.  $n=4, l=0, m=0, s=+\frac{1}{2}$
- 3. Magnetic quantum number specifies 1
  - A. orbital size
  - B. orbital shape
  - C. orbital orientation
  - D. nuclear stability
- 4. An element (X) which occurs in the second period has an outer electronic configuration  $2s^2 2p^1$ . What is the formula and nature of its oxide? 1
  - A.  $XO_3$ , basic
  - B.  $X_2O_3$ , acidic
  - C.  $X_2O_3$ , basic
  - D.  $XO_2$ , acidic

5. The increasing order of the first ionisation enthalpies of the elements B, P, S and F (lowest first) is: 1  
 A.  $F < S < P < B$   
 B.  $P < S < B < F$   
 C.  $B < P < S < F$   
 D.  $B < S < P < F$
6. Number of  $\pi$ -bonds and  $\sigma$ -bonds in the following structure are: 1



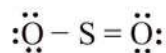
- A. 6, 19  
 B. 4, 20  
 C. 5, 19  
 D. 5, 20
7. Covalent nature of  $AlCl_3$  would be judged by: 1  
 A. Molecular orbital theory  
 B. Fajan's rule  
 C. Valence bond theory  
 D. VSEPR theory

**Q. No. 8 to 10 are Assertion(A) and Reason (R) type questions. Given below are two statements labelled as Assertion(A) and Reason (R). Select the most appropriate answer from the options given below.**

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

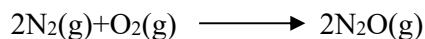
8. **Assertion (A):** Both 106g of  $Na_2CO_3$  and 12g of carbon contain the same number of carbon atoms. 1  
**Reason (R):** Both represent one gram atom of carbon and contain  $6.022 \times 10^{23}$  atoms of carbon.
9. **Assertion (A):** The outer electronic configuration of Cr and Cu are  $3d^5 4s^1$  and  $3d^{10} 4s^1$  respectively. 1  
**Reason (R):** Electrons are filled in orbitals in order of increasing energies given by  $(n+l)$  rule.
10. **Assertion (A):** Molecular nitrogen is less reactive than molecular oxygen. 1  
**Reason (R):** The bond length of  $N_2$  is less as compared to that of  $O_2$ .
11. Mention the number of significant figures in 2.0034. 1
12. What is the maximum number of emission lines when the excited electron of a hydrogen atom in  $n=5$  drops to the ground state? 1
13. Out of Li and Be which one is expected to have higher second ionization enthalpy and why? 1

14. What is the formal charge on single bonded oxygen atom in the given molecule? 1



#### SECTION-B

15. 45.4 L of dinitrogen reacted with 22.7 L of dioxygen and 45.4 L of nitrous oxide was formed. The reaction is given below: 2



Which law is being obeyed in this experiment? Write the statement of the law.

16. Given aqueous solution of 1molar glucose and 1molal glucose, which one is more concentrated and why? 2

**OR**

If 4 g of NaOH dissolves in 36 g of H<sub>2</sub>O, calculate the mole fraction of each component in the solution. (Density of solution is 1g /cc).

17. Write down all the four quantum numbers for 21<sup>st</sup> electron of Sc (At.No.21). 2

18. Yellow light emitted from a sodium lamp has a wave length of 580nm. Calculate the frequency and wave number of yellow light. (Velocity of light =  $3 \times 10^8$  m/s) 2

19. (i) Ne and Na<sup>+</sup> ions are isoelectronic species. Do they also have the same ionisation enthalpy? Justify your answer. 2

(ii) Differentiate between the terms electron gain enthalpy and electronegativity.

20. Select from each group, the species which has the smallest radius stating appropriate reason. 2x1=2

(i) K<sup>+</sup>, Ca<sup>2+</sup>, Ar (ii) Si, P, Cl

21. Give reason for the following: 2x1=2

- (i) Ammonia is soluble in water while phosphine is not.  
(ii) Lithium iodide is more covalent than lithium fluoride.

**OR**

Explain why CO<sub>3</sub><sup>2-</sup> ion can not be represented by a single Lewis structure. How can it be best represented? 2

#### SECTION-C

22. An organic compound contains 10.4% carbon, 0.84% hydrogen and 89.12% chlorine. Derive its empirical and molecular formula. Molecular mass of the compound is 119.5u. (At.mass:C = 12u, H = 1u, Cl = 35.5u) 3

23. Concentrated aqueous solution of sulphuric acid is 98% by mass and has a density of 1.80 g /cc. What is the volume of acid required to make one litre of 0.1M H<sub>2</sub>SO<sub>4</sub> solution? 3

**OR**

What volume of hydrogen at STP would be liberated by the action of 50ml of dilute H<sub>2</sub>SO<sub>4</sub> of 40% purity (density of 1.3 g/cc) with 65g of Zinc? (Atomic mass of Zn = 65u)

24. Nitrogen and hydrogen react to form ammonia according to the reaction: 1+2=3  

$$\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \longrightarrow 2\text{NH}_3(\text{g})$$
  
 If 1000g of  $\text{H}_2$  react with 2000g of  $\text{N}_2$   
 (i) Will any of the two reactants remain unreacted? If yes, which one and what would be its mass?  
 (ii) Calculate the mass of ammonia ( $\text{NH}_3$ ) which will be formed.
25. (i) The ion of an element has configuration  $[\text{Ar}]3\text{d}^4$  in +3 state. Write the electronic configuration of its atom. 1+2=3  
 (ii) Show that the circumference of the Bohr orbit for the hydrogen atom is an integral multiple of the de Broglie wavelength associated with the electron revolving around the orbit.
26. What transition in a hydrogen spectrum would have the same wavelength as in the Balmer transition  $n=4$  to  $n=2$  of  $\text{He}^+$  spectrum? 3
- OR**
- The mass of an electron is  $9.1 \times 10^{-31} \text{ kg}$ . If its kinetic energy is  $3.0 \times 10^{-25} \text{ J}$ , calculate its wavelength.
27. Explain the following statements: 3x1=3  
 (i) Anions have larger size than their parent atoms.  
 (ii) First electron gain enthalpy of oxygen is negative but the second electron gain enthalpy of oxygen is positive.  
 (iii) First ionisation enthalpy of carbon is more than that of boron but the reverse is not true for the second ionisation enthalpy.
28. (i) Are the oxidation state and covalency of Al in  $[\text{AlCl}(\text{H}_2\text{O})_5]^{2+}$  same? 1+2=3  
 Give reason.  
 (ii) What do you understand by isoelectronic species? Write an isoelectronic species for each of the following atom/ion-  
 (a) Ar (b)  $\text{F}^-$
- OR**
- (i) Predict the position of the element in the periodic table satisfying the configuration  $(n-1)\text{d}^1\text{ns}^2$  for  $n=4$ .  
 (ii) Boron forms  $[\text{BF}_4]^-$  whereas, Aluminium forms  $[\text{AlF}_6]^{3-}$ , give reason.
29. (i)  $\text{Cl}_2\text{O}_7$  is an acidic oxide, Justify. Write the equation for its chemical reaction with water. 1+2=3  
 (ii) The energy of an electron in the ground state of hydrogen atom is  $-2.18 \times 10^{-18} \text{ J}$ . Calculate the ionisation enthalpy of atomic hydrogen in terms of  $\text{J mol}^{-1}$ .
30. Calculate bond order, compare the relative stability of the following species and also indicate their magnetic properties:  $\text{O}_2^+$ ,  $\text{O}_2^-$ ,  $\text{O}_2^{2-}$  3
- SECTION-D**
31. (i) How many electrons will be present in the sub-shells having  $m_s = -\frac{1}{2}$  for  $n=4$ ? 1+2+2=5  
 (ii) Write any two points of difference between orbit and orbital.  
 (iii) Calculate the uncertainty in velocity of a cricket ball of mass 150 grams if uncertainty in position is of the order of  $1 \text{ \AA}$ .  
 ( $h = 6.626 \times 10^{-34} \text{ Js}$ )

**OR**

- (i) State Pauli Exclusion Principle.  
(ii) Draw the shapes of  $d_{x^2-y^2}$  and  $d_{z^2}$  orbital.  
(iii) The threshold frequency ( $\nu_0$ ) for a metal is  $7.0 \times 10^{14} \text{ s}^{-1}$ . Calculate the kinetic energy of an electron emitted when radiation of frequency ( $\nu$ ) =  $1.0 \times 10^{15} \text{ s}^{-1}$  hits the metal. ( $h = 6.626 \times 10^{-34} \text{ Js}$ )
- 32.** (i)  $\text{SiF}_4$  is non-polar although Si-F bonds are polar. **1+3+1=5**  
(ii) Predict the shape of the following molecules using the VSEPR model:  
(a)  $\text{PCl}_5$  (b)  $\text{BrF}_5$   
(iii) In which of the following pairs, the two species are iso-structural?  
(a)  $\text{BF}_3$  and  $\text{NF}_3$  (b)  $\text{BrO}_3^-$  and  $\text{XeO}_3$

**OR**

- (i) What is the change in hybridization (if any) of Al atom in the reaction? **1+1+3=5**  
 $\text{AlCl}_3 + \text{Cl}^- \longrightarrow \text{AlCl}_4^-$   
(ii) Sigma bond is stronger than pi-bond, why?  
(iii) Draw the resonating structures of the following:  
(a)  $\text{CO}_2$  (b)  $\text{HNO}_3$  (c)  $\text{O}_3$

### SECTION-E

- 33. Read the given passage and answer the following questions.** **5x1=5**

The nature of bond depends upon the electronegativity value of two constituent atoms. In case, the bonding atoms are either same or have nearly the same electronegativity, the bond is non-polar. In case, they differ appreciably in the electronegativity values, the bond is known as polar bond or polar covalent bond. The dipole moment of a covalent molecule is linked to the polarity of the covalent bonds present and also to their geometries. In general, linear and symmetrical molecules have zero dipole moments whereas bent and unsymmetrical molecules have specific dipole moment values.

**Choose the correct answer for the following multiple choice type questions.**

- (i) Carbon tetrachloride has no net dipole moment because of  
A. its planar structure.  
B. its regular tetrahedral geometry.  
C. similar sizes of carbon and chlorine atoms.  
D. similar electron affinities of carbon and chlorine.
- (ii) The geometry of  $\text{H}_2\text{S}$  and its dipole moment are:  
A. angular and non-zero  
B. angular and zero  
C. linear and non-zero  
D. linear and zero

A. chlorine  
B. boron  
C. nitrogen  
D. carbon

A.  $\text{CCl}_4$   
B.  $\text{BF}_3$   
C.  $\text{NH}_3$   
D.  $\text{CO}_2$

A. 41.8 D  
B. 4.18 D  
C. 4.8 D  
D. 0.48 D

6



**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION 2022-2023**

**Class: XI**  
**Subject: Computer Science (083)**

**Maximum Marks: 70**  
**Time: 3 Hours.**

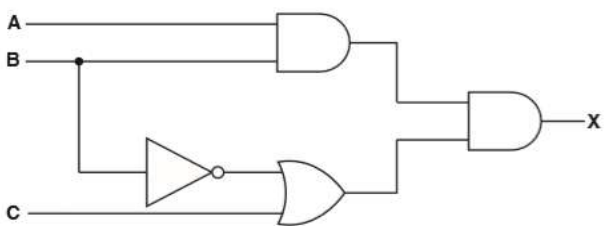
**General Instructions:**

1. *This question paper contains two Parts A and B. and 04 pages. Each part is compulsory.*
2. **Part-A has 2 sections:**
  - a. *Section – I has 21 short answer questions of 1 mark each from which 15 questions to be answered in one word or one line.*
  - b. *Section – II has two case studies questions. Each case study has 4 case-based subparts. An examinee is to attempt any 4 out of the 5 subparts.*
3. **Part - B is Descriptive Paper and has three sections**
  - a. *Section-I is consists of 10 short answer questions of 2 marks each in which two questions have internal options.*
  - b. *Section-II is consists of 4 long answer questions of 3 marks each in which two questions have internal options.*
  - c. *Section-III is consists of 3 very long answer questions of 5 marks each in which one question has internal option.*

**PART-A**

**Section-I**

**Select the most appropriate option out of the options given for each question. Attempt any 15 questions from question no 1 to 21.**

- |    |  |  |
|----|--|--|
| 1  | What is application software? Why it is required?  | 1  |
| 2  | Which gates are considered as the Universal gates?   | 1  |
| 3  | Which of the following statement/s are logical statements?<br>(i) NOT gate is also called as inverter.<br>(iii) Australia is the world cricket champion, 2003? | 1<br><br>(ii) Try to run fast<br>(iv) Why did you come late? |
| 4  | Define Cache Memory.   | 1  |
| 5  | Write the equivalent Boolean expression for the following circuit:<br>      | 1  |
| 6  | Hexadecimal number system recognizes symbols 0 to 9 and A to _____   | 1  |
| 7  | What do you mean by source code and object code?   | 1  |
| 8  | Convert $(1948.B6)_{16}$ to Octal equivalents.   | 1  |
| 9  | Prove $(X+Y)(X+Z) = X+YZ$ using Truth Table.   | 1  |
| 10 | What is meant by MSD and LSD ?   | 1  |

- 11 Convert (FACE)<sub>16</sub> to binary equivalent. 1
- 12 The Value of radix in decimal number system is \_\_\_\_\_. 1
- 13 Which of the following are not valid symbols in octal number system? 1  
a) 2                      b) 8                      c) 10                      d) 16
- 14 The octal equivalent of 111 010 is \_\_\_\_\_. 1  
i) 81                      ii) 72                      iii) 71                      iv) 82
- 15 Differentiate between ASCII and ISCII encoding standards. 1
- 16 What will be the output of the following code: 1  
Str= "My Python Programming"  
print(Str[:5])
- 17 How are keywords different from identifiers? 1
- 18 The other name for the lexical unit of a program is called \_\_\_\_\_. 1
- 19 Sunita wants to skip one iteration in her python program. From the following which will help her? 1  
(a) continue              (b) break              (c) for              (d) case
- 20 \_\_\_\_\_ loop is best when the numbers of iterations are known. 1
- 21 The loop contained within another loop is called a \_\_\_\_\_ loop. 1

## Section-II

**Both the Case study based questions are compulsory.**

**Attempt any 4 sub parts from each question. Each question carries 1 mark**

- 22 Consider the following code to answer questions from (i) to (v). (Any four ) 4
1. a,b,c,d,e = 20, 10,15,5,0
  2. e = (a + b)\*c/d
  3. print("Value of (a + b) \* c / d is ", e)
  4. e = ((a + b)-e \* c)/d-e
  5. print ("Value of ((a + b)-e \* c) / d-e is ", e)
  6. e = (a + b)\* (c / d)
  7. print( "Value of (a + b) \* (c / d) is ", e)
  8. e = a + (b\*c)-e/d-e
  9. print ("Value of a + (b \* c)-e / d-e is ", e)
  10. e = a + (b\*c)-e/d-e
  11. print ("Value of a + (b \* c)-e / d-e is ",type('type(e)'))
- a) What will be the output of line number 3.
  - b) What will be the output of line number 5.
  - c) What will be the output of line number 7.
  - d) What will be the output of line number 9.
  - e) What will be the output of line number 11.

- 23 Consider the string : 4  
 str= "Green Revolution".  
 Write statements in python to implement the following: (Any Four)  
 i) To replace all the occurrences of letter 'a' in the string with "\*"   
 ii) To extract "Green" from the given string and print in capital letter as GREEN.  
 iii) To remove all white spaces from the beginning of a string if any.  
 iv) To check whether string contains 'vol' or not.  
 v) To repeat the string 3 times.

**Part-B**  
**Section: I**

- 24 Write any four functions of an operating system. 2
- 25 State DeMorgan's Laws. Verify one of the DeMorgan's Laws using truth table 2
- 26 Draw the logic circuit diagram for the following Boolean expression. 2  
 $A(B + \bar{C}) + \bar{A}\bar{B}C$
- OR
- Find the complement of the Boolean expression:  $\bar{A} + (B.\bar{C})$
- 27 Represent -25 in binary form. 2
- OR
- Do as directed :-  
 (a) Convert the Decimal number 736 into Hexadecimal number.  
 (b) Convert the Hexadecimal number ABFC into Octal number.
- 28 What is Unicode? Write different standards to represent Unicode encoding scheme. 2
- 29 What do you mean by Run-Time Error? Write any two built-in exception used in python. 2
- 30 Write the corresponding python expression for the following mathematical expression: 2  
 i)  $\sqrt{a^2 + b^2 + c^2}$     ii)  $2 - ye^{2y} + 4y$
- 31 Find the output of the following code: 2  
 x=10  
 for i in range(x):  
   if x==5:  
     break  
     print("H")  
 print(x)

32 Find error(s) in the following code(if any) and rewrite code and underline each correction: 2

```

x= int("Enter value of x:")
for in range [0,10]:
    if x=y
        print("They are equal")
    else:
        Print( "They are unequal")

```

33 Write pseudo code that will perform the following: 2

a) Read the marks of three subjects: Computer Science, Mathematics and Physics.

b) Calculate & print the average marks.

### Section: II

34 What do you mean by type casting? What is the difference between implicit type casting and explicit type casting? 3

35 Draw a flowchart where multiple conditions are checked to categorize a person as either child (<13), teenager (>=13 but <20) or adult (>=20),based on age input: 3

**OR**

Draw flowchart to print Even numbers between 1 to 50

36 Write a python program to generate the following pattern 3

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```

**OR**

Write a program that searches for prime numbers from 15 to 25.

37 Write a program to input a string and check the given string is palindrome or not. 3

### Section: III

38 Write a python program script to enter two numbers and print their LCM and GCD. 5

**OR**

Write a program in python which takes a three digit integer and checks whether the number is Armstrong number or not.

*An Armstrong number is any number which is equal to the sum of cube of digits in the number.*

39 Write a python script to print the Fibonacci series for first 10 elements. 5

Some initial elements of the Fibonacci series are: 0 1 1 2 3 5.....

40 Write a program that reads a line and a substring. It should then display the number of occurrences of the given substring in the line. 5

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022 – 2023**

**Class : XI**  
**Subject : Cost Accounting (823)**

**Maximum Marks : 80**  
**Time : 3 Hours**

**General Instructions :**

1. Please read the instructions carefully.
2. This Question Paper consists of 24 questions in two sections – Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. Out of the given (6 + 18=) 24 questions, a candidate has to answer (6 + 11=) 17 questions in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):**
  - i. This section has 06 questions.
  - ii. There is no negative marking.
  - iii. Do as per the instructions given.
  - iv. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):**
  - i. This section contains 18 questions.
  - ii. A candidate has to do 11 questions.
  - iii. Do as per the instructions given.
  - iv. Marks allotted are mentioned against each question/part.

**SECTION A - OBJECTIVE TYPE QUESTIONS**

- Q. 1**                      **Answer any 4 out of the given 6 questions on Employability Skills**                       **$1 \times 4 = 4$**
- (i) “We are equally entitled to express ourselves respectfully to one another.” – Identify the types of communication.                      1
  - (ii) \_\_\_\_\_, also known as 'areas of improvement' are what one does not do well and is not good at.                      1
  - (iii) What is Pronoun?                      1
  - (iv) What is Grooming?                      1
  - (v) We use an \_\_\_\_\_ followed by an ‘s’ to show that something belongs to someone.                      1
  - (vi) \_\_\_\_\_ describe movements of parts of the body, especially hands or head, to express an idea or meaning. This includes waving, pointing and using our hands when speaking. For example, raising a hand may mean asking a question. Biting nails show nervousness.                      1
- Q. 2**                      **Answer any 5 out of the given 7 questions**                       **$1 \times 5 = 5$**
- (i) \_\_\_\_\_ is the technique and process of ascertainment cost.                      1
  - (ii) Materials are of two types – Direct and \_\_\_\_\_.                      1
  - (iii) Which of the following calculate the actual cost of product:                      1
    - (a) Cost estimation                      (b) Costing
    - (c) Both (a) and (b)                      (d) None of these
  - (iv) Stock of materials of a firm in one kind of :                      1
    - (a) liability                      (b) Expenses
    - (c) Income                      (d) Asset

- (v) Factory Cost is the summation of : 1  
 (a) Prime cost and Office overheads  
 (b) Office cost and Office overheads  
 (c) Prime cost and Factory overheads  
 (d) Office cost and selling overheads
- (vi) If the cost of sales is ₹5,30,000 and the manufacturer sells the product at a profit of 20% on sales. What is the amount of profit? 1  
 (a) ₹1,32,500 (b) ₹1,06,000  
 (c) ₹88,333 (d) None of These
- (vii) \_\_\_\_\_ sheet is a statement that presents the total and per unit cost of production with regard to any cost unit or cost Centre for a specific period of time. 1

**Q. 3 Answer any 6 out of the given 7 questions  $1 \times 6 = 6$**

- (i) What is the formula to calculate Average Stock Level? 1  
 (a)  $\frac{1}{2}$  of (Minimum Level + Maximum Level)  
 (b) Minimum Level +  $\frac{1}{2}$  of Reorder Quantity  
 (c) Both (a) and (b)  
 (d) Neither (a) nor (b)
- (ii) A cost driver is an \_\_\_\_\_ which generates cost. 1  
 (a) Activity (b) Action  
 (c) Object (d) All
- (iii) \_\_\_\_\_ costs are irrelevant for decision making as they cannot be changed by any decision that will be in the future. 1
- (iv) For a company manufacturing computer, the aluminum used in mother board is a type of : 1  
 (a) Finished material (b) Raw Material  
 (c) Semi-finished Good (d) None of these
- (v) Carriage Inward is a direct expense. (True/False) 1
- (vi) \_\_\_\_\_ is that level of materials at which a new order for material is to be placed. 1
- (vii) Fuel and power is the item of \_\_\_\_\_ overhead. 1

**Q. 4 Answer any 5 out of the given 6 questions  $1 \times 5 = 5$**

- (i) \_\_\_\_\_ represents the quantity of materials which is normally ordered when the materials reach ordering level. 1
- (ii) Overhead is the aggregate of \_\_\_\_\_ costs. 1
- (iii) Bin card is maintained by \_\_\_\_\_. 1
- (iv) Wages of machine operator is an example of \_\_\_\_\_ labour. 1
- (v) Minimum stock level is 1,000 units; reorder quantity is 1,200 units. Average stock level is \_\_\_\_\_. 1
- (vi) Variable cost changes with in the same proportion in which output changes. (True/False) 1

**Q. 5 Answer any 5 out of the given 6 questions  $1 \times 5 = 5$**

- (i) Store ledger is an \_\_\_\_\_ record. 1
- (ii) The following relates to a manufacturing organization: 1

	Year 1	Year 2
Production	1,700 Units	1,850 units
Total cost	₹28,500	₹29,250

The variable cost per unit is ₹5. What is the amount of fixed cost?

- (a) ₹18,000 (b) ₹22,500  
 (c) ₹20,000 (d) ₹24,000

- (iii) Essential requirement of material control is : 1  
 (a) Proper planning (b) Level of stock materials  
 (c) Physical verification of stock (d) All of these
- (iv) Larger the number of orders, lower will be the storage cost. (True/False) 1
- (v) \_\_\_\_\_ remains static or constant irrespective of changes in output. 1
- (vi) Pricing of issue of materials is closely connected with the actual physical movements of units of material. (True/False) 1
- Q. 6 Answer any 5 out of the given 6 questions  $1 \times 5 = 5$**
- (i) The discount allowed by the supplier to encourage the buyers to make cash payment is called: 1  
 (a) Quantity discount (b) Trade discount  
 (c) Cash discount (d) Term discount
- (ii) Unit Costing is also known as Output Costing. (True/False) 1
- (iii) Under \_\_\_\_\_ method, issues are priced on the assumption that materials purchased first are issued first. 1
- (iv) Cost of each department is ascertained under: 1  
 (a) Batch Costing (b) Departmental Costing  
 (c) Process Costing (d) Contract Costing
- (v) Which of the following is not an objective of material control? 1  
 (a) Continuous supply of raw materials  
 (b) Purchasing materials at the lowest price  
 (c) Minimisation of wastage of material  
 (d) Maximisation of holding cost of the material
- (vi) LIFO stands for 1  
 (a) Labour in First Out (b) Least in First Out  
 (c) Lower in First Out (d) Last in First Out

### SECTION B: SUBJECTIVE TYPE QUESTIONS

**Answer any 3 out of the given 5 questions on Employability Skills : (2 x 3 = 6 marks)**

**Answer each question in 20 – 30 words.**

- Q.7 What is Consonant? Explain with an example. 2
- Q.8 What is Goal? Also explain how to set a goal. 2
- Q.9 Write down one advantage and disadvantage of Verbal Communication. 2
- Q.10 Write down any two importance of personal hygiene. 2
- Q.11 What do you mean by Team Work? Write one advantage. 2

**Answer any 3 out of the given 5 questions in 20 – 30 words each : (2 x 3 = 6 marks)**

- Q.12 Calculate Raw Materials Consumed during the year from the following information: 2  
 Opening stock of raw materials ₹1,40,000  
 Closing stock of raw materials ₹1,60,000  
 Returns to suppliers ₹40,000  
 Raw materials purchased ₹2,60,000
- Q.13 Write down any two advantages of Material Control. 2
- Q.14 Calculate Reorder Level from the following information: 2  
 Maximum Consumption : 200 Units per day  
 Normal Consumption : 125 Units per day  
 Normal Periods for receiving goods : 10 days  
 Minimum Stock Level : 1,750 units
- Q.15 What is Ordering Cost? 2

- Q.16 What is Capital Expenditure? 2
- Answer any 2 out of the given 3 questions in 30– 50 words each : (3 x 2 = 6 marks)**
- Q.17 A pharmaceutical company is having annual demand of its medicine 40,000 units. For the production of units, company has to bear setting up and order processing cost of ₹100. Cost of manufacturing one unit is ₹8000. Cost of carrying is 10% per annum. Calculate Economic Order Quantity. 3
- Q.18 Identify from the following the nature of costs on the basis of Direct Materials and Indirect Materials : 3
- (a) Primary packing materials
- (b) Greese
- (c) Materials passing from one process to another
- Q.19 Determine the amount of Factory Overhead from the following information: 3
- Raw Materials consumed ₹1,50,000
- Productive Wages ₹1,00,000
- Chargeable Expenses ₹50,000
- Factory Cost 400% of Productive Wages
- Answer any 3 out of the given 5 questions in 50– 80 words each : (4 x 3 = 12 marks)**
- Q.20 A company manufactures 5,000 units of a product per month. The cost of placing an order is ₹100. The purchase price of a raw material is ₹10/Kg. The re-order period is 4 to 8 weeks. The consumption of raw material units is 100 Kgs to 450 Kgs per week. The reorder quantity is 1,196 Kgs. The average Consumption is 275 Kg. The carrying cost inventory is 20% per annum. 4
- You are required to calculate:
1. Re-order Level
2. Maximum Level
3. Minimum Level
4. Average Stock Level
- Q.21 From the following information relating to the production for the year ended on 30th June, 2022, prepare a Cost Sheet showing therein Works Cost and Cost of Production: 4
- Prime Cost ₹54,000
- Indirect expenses (Factory) ₹5,000
- Depreciation on Machinery ₹6,000
- Office Overhead 20% of Works Cost
- Selling & Distribution Overhead ₹2,000
- Q.22 Distinguish between Cost Accounting and Financial Accounting on the basis of the given information: 4
- (a) Meaning
- (b) Types of Costs
- (c) Time Period of Recording
- (d) Users
- Q.23 Write down any four objectives of Materials Control. 4
- Q.24 From the following information, compute: 4
- (a) Number of Orders
- (b) Time Gap Between two Consecutive Orders
- Consumption 300 units per quarter; Cost per unit ₹40; Cost of processing an order ₹600; Obsolescence 15% and Insurance on inventory 25%.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION 2022-2023**

**CLASS: XI**  
**SUBJECT: ECONOMICS**

**MAXIMUM MARKS: 80**  
**TIME: 3 HOURS.**

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**General instructions:**

- i. All the questions in both the sections are compulsory. Marks for questions are indicated against each question.
- ii. Question number 1 - 10 and 18 - 27 are very short-answer questions carrying 1 mark each. They are required to be answered in one word or one sentence each.
- iii. Question number 11 - 12 and 28 - 29 are short-answer questions carrying 3 marks each. Answers to them should not normally exceed 60-80 words each.
- iv. Question number 13 - 15 and 30 - 32 are also short-answer questions carrying 4 marks each. Answers to them should not normally exceed 80-100 words each.
- v. Question number 16 - 17 and 33 - 34 are long answer questions carrying 6 marks each. Answers to them should not normally exceed 100-150 words each.
- vi. Answer should be brief and to the point and the above word limit be adhered to as far as possible.

**SECTION-A: STATISTICS FOR ECONOMICS**

1. Identify the incorrect statement from the following :

1

- a) Resources have alternative uses.
- b) All numbers are statistics.
- c) Macroeconomics studies large aggregates.
- d) Statistics studies only the aggregates of quantitative facts.

**Read the given case study carefully and answer the following questions (Q2-Q5) on the basis of the same:**

Under the census or complete enumeration method, data are collected from each and every unit of the population or universe which has the complete set of items. The results obtained are likely to be more representative, accurate and reliable. The census method is not popularly used in practice as the efforts, money and time required for carrying out complete enumeration will generally be extremely large and in many cases cost may be so prohibitive that the very idea of collecting information may have to drop. Sampling is simply the process of learning about the population on the basis of a sample drawn from it. Thus, in the sampling technique instead of every unit of the universe only a part of the universe is studied.

2. Technique which gives every item of the universe an equal chance of being selected is

1

- 
- a) Convenient sampling
  - b) Random sampling
  - c) Judgement sampling
  - d) Non-random sampling.

**OR**

The most complete and continuous demographic record of population is provided by:

- a) Reserve Bank of India
- b) Central Statistical Organisation
- c) Registrar General of India
- d) Census of India.

3. Read the following statements: Assertion (A) and Reason (R). Choose the correct option out of the following options: 1  
 Assertion (A): Sampling errors can be minimised.  
 Reason (R): Non sampling errors can be fully rectified.
- Both Assertion (A) and Reason (R) are true and (R) is the correct explanation of Assertion (A).
  - Both Assertion (A) and Reason (R) are true and (R) is not the correct explanation of Assertion (A).
  - Assertion (A) is true but Reason (R) is false.
  - Assertion (A) is false but Reason (R) is true.
4. Which of the following methods can be used for collection of primary data? 1
- Census method
  - Sampling method
  - Both (a) and (b)
  - None of the above
5. Choose the correct statement from the following. 1
- Census method involves more time and cost.
  - Data collected by Census method are not reliable.
  - Sampling method includes every population in the universe.
  - Sampling method is more costly than Census method.
6. Match the following. 1
- | Column I  | Column II                 |
|---|---------------------------|
| A) Random sampling method is also known as                                | i) NSSO                   |
| B) Largest organisation in India conducting regular socio-economic survey | ii) Primary data          |
| C) The survey which helps in pre-testing the questionnaire.               | iii) Probability sampling |
| D) Data collected by investigator himself.                                | iv) Pilot survey          |
- A)-i, B)-ii, C)-iii, D)-iv
  - A)-iii, B)-i, C)-iv, D)-ii
  - A)-ii, B)-i, C)-iv, D)-iii
  - A)-iv, B)-iii, C)-ii, D)-i
7. Read the following statements: Assertion (A) and Reason (R). Choose the correct option out of the following options: 1  
 Assertion (A): Chronological classification is based on period of time.  
 Reason (R): Spatial classification is based upon geographical location.
- Both Assertion (A) and Reason (R) are true and (R) is the correct explanation of Assertion (A).
  - Both Assertion (A) and Reason (R) are true and (R) is not the correct explanation of Assertion (A).
  - Assertion (A) is true but Reason (R) is false.
  - Assertion (A) is false but Reason (R) is true.
8. Range is the: 1
- Difference between the largest and the smallest observation.
  - Average of the largest and the smallest observation.
  - Ratio of the largest to the smallest observation.
  - Largest observation of the data.
9. Choose the incorrect statement from the following. 1
- Raw data are collected by investigator during the investigation.
  - The number of variables or items that comes under any class is called frequency.

- c) Cumulative frequency is the frequency of a class.  
d) Arranging the data in different classes or according to a given order is called 'series'.

10. Data in the form of a table is the part of: 1
- a) Organisation of data  
b) classification of data  
c) interpretation of data  
d) presentation of data

11. "Economics is about making choices in the backdrop of scarcity." Explain. 3

12. Differentiate between primary data and secondary data. 3

**OR**

Explain three qualities of a good questionnaire.

13. The government and the policy makers use statistical data to formulate suitable policies of economic development." Explain with the help of two examples. 4

14. State two merits and two demerits of collecting data by 'Direct personal investigation' method. 4

15. 30 families in an area spend the following monthly expenditure on food: 4  
115, 159, 196, 205, 212, 223, 256, 271, 310, 129, 335, 169, 184, 234, 245, 241, 265, 298, 144, 135, 172, 173, 229, 220, 238, 278, 243, 220, 238, 238

- i) Prepare a frequency distribution with the class interval of 100-150, 150-200, 200-250 etc.  
ii) Find the number of families whose monthly expenditure on food is  
a) less than Rs. 250 b) more than Rs. 300.

**OR**

Marks scored by 50 students are given below:

40	45	38	24	46	42	45	18	53	64
45	32	52	54	78	65	52	64	66	43
48	55	50	43	48	20	27	65	37	55
51	55	62	66	38	16	60	58	46	35
72	62	54	58	30	36	43	82	46	53

- i) Construct a frequency distribution with exclusive class-intervals, taking the lowest class as 10-20.

- ii) Convert the exclusive series constructed in (i) into 'less than' cumulative frequency distribution.

16. Prepare an Inclusive frequency distribution series for the following data taking class interval as 6 using the data below: 6

24, 15, 9, 4, 4, 22, 26, 13, 18, 8, 9, 15, 28, 14, 27, 12, 6, 29, 32, 18, 36, 16, 2, 17, 1, 23, 15, 10, 18, 7, 6, 21, 3, 27, 9, 4, 27, 8, 23, 11, 2, 33, 1, 1

Convert the inclusive series to exclusive series.

17. a) Which part of a table gives us numerical information? State the significance of 'Foot Note'. 2+4

- b) There were 80 persons in a trip organised by a school. Out of which 60 were students, 14 were teachers and 6 (all males) were peons. Out of total population, 16 were females including one lady teacher. Present the above information in a table.

**OR**

Tabulate the given information:

- (i) In 2015, out of a total of 1,500 applicants in a college, 900 were from Commerce background. The number of girls was 600, out of which 230 were from Science stream.
- (ii) In 2016, the total number of applicants was 2,500 of which 1,800 were boys. The number of students from Science stream was 1,600 of which 450 were girls.

### SECTION B: INTRODUCTORY MICROECONOMICS

- 18.** Which of the following is an assumption of Production Possibility Frontier? **1**
- a) Resources are not fully employed
  - b) Resources are not equally efficient for production of the two goods.
  - c) Resources are not efficiently employed.
  - d) Resources available are not fixed.
- OR**
- When there is an improvement in technology , holding everything else constant:
- a) the production possibilities frontier shifts inward.
  - b) the production possibilities frontier shifts outwards.
  - c) the production possibilities frontier remains the same.
  - d) movement along the PPC downwards takes place.
- 19.** Read the following statements: Assertion (A) and Reason (R). Choose the correct option out of the following options: **1**
- Assertion (A): Microeconomics is the study of an individual unit of a commodity.  
Reason (R): The basic tools of microeconomics are demand and supply.
- a) Both Assertion (A) and Reason (R) are true and (R) is the correct explanation of Assertion (A).
  - b) Both Assertion (A) and Reason (R) are true and (R) is not the correct explanation of Assertion (A).
  - c) Assertion (A) is true but Reason (R) is false.
  - d) Assertion (A) is false but Reason (R) is true.
- 20.** Identify the incorrect statement from the following : **1**
- a) Total Utility is the sum of Marginal utilities.
  - b) Consumer strikes equilibrium when  $TU_X = P_X$
  - c) When Marginal Utility is negative, total utility is decreasing.
  - d) At saturation point Marginal utility is zero.
- 21.** The slope of indifference curve is called: **1**
- a) Marginal utility.
  - b) Marginal rate of substitution.
  - c) Total utility.
  - d) None of these.
- 22.** Read the following statements: Assertion (A) and Reason (R). Choose the correct option out of the following options: **1**
- Assertion (A): IC slopes downward from left to right.  
Reason (R): According to monotonic preference , more of a good always leads to higher satisfaction.
- a) Both Assertion (A) and Reason (R) are true and (R) is the correct explanation of Assertion (A).
  - b) Both Assertion (A) and Reason (R) are true and (R) is not the correct explanation of Assertion (A).
  - c) Assertion (A) is true but Reason (R) is false.
  - d) Assertion (A) is false but Reason (R) is true.

Read the given case carefully and answer the following questions (Q23-Q26) on the basis of the same.

Demand is defined as the amount of some product that a consumer is willing and able to purchase at different price. This suggests at least two factors, in addition to price, that affect demand. The first one is 'Willingness to purchase' that suggests a desire to buy, and it depends on what economists call taste and preferences. If you neither need nor want something, you won't be willing to buy it. Second is 'Ability to purchase' that suggests income is important. Among other things the price of related goods can also affect demand. If you need a new car, for example, the price of Honda may affect your demand for a Ford. Finally, the size or composition of the population can affect demand. The more children a family has, the greater is their demand for clothing. The more driving-age children a family has, the greater is their demand for car insurance and the less is their demand for diapers and baby formula.

23. Which of the following is an element of demand? 1  
 a) Willingness to purchase  
 b) Ability to purchase at a given price  
 c) Both a) and b)  
 d) None of these.
24. 'Ability to purchase' depends upon \_\_\_\_\_ 1  
 a) taste  
 b) preference  
 c) income  
 d) all of these.
25. Identify the incorrect statement from the following : 1  
 a) Increase in population leads to increase in demand.  
 b) Willingness to purchase does not suggest a desire to buy.  
 c) Increase in number of consumers shifts the demand curve rightward.  
 d) The demand of a commodity becomes elastic if its substitute good is available in the market.
26. In the following question, a statement of assertion is followed by a statement of reason. 1  
 Choose the correct option out of the following options:  
 Assertion (A): The price of Honda may affect your demand for a Ford.  
 Reason (R): The price of related goods can also affect demand.  
 a) Both Assertion (A) and Reasoning (R) are true and (R) is the correct explanation of Assertion (A).  
 b) Both Assertion (A) and Reasoning (R) are true and (R) is not the correct explanation of Assertion (A).  
 c) Assertion (A) is true but Reason (R) is false.  
 d) Assertion (A) is false but Reason (R) is true.
27. Match the following. 1

Column I	Column II
A) When the demand curve is parallel to the X axis its demand is _____	i) inferior good
B) Rise in the price of a good leads to increase in its demand	ii) unity
C) Value of elasticity of demand on a rectangular hyperbola demand curve	iii) giffen good
D) A rise in income of the consumer X leads to a fall in the demand for the good A by him. Here good A is known as	iv) infinity

- a) A)-i, B)-ii, C)-iii, D)-iv
- b) A)-iii, B)-i, C)-iv, D)-ii
- c) A)-ii, B)-i, C)-iv, D)-iii
- d) A)-iv, B)-iii, C)-ii, D)-i

28. Why do ICs not intersect or cross each other? Explain. 3

29. A consumer consumes only two goods X and Y whose prices are Rs.4 and Rs.5 per unit respectively. If the consumer chooses a combination of the two goods with marginal utility of X equal to 5 and that of Y equal to 4, is the consumer in equilibrium? Give reasons. What will a rational consumer do in this situation? Use utility analysis. 3

**OR**

A consumer consumes only two goods X and Y. Her money income is Rs. 24 and the prices of goods X and Y are Rs. 4 and Rs. 2 respectively. Answer the following questions.

- a) State the equation of the budget line.
- b) What will be the  $MRS_{xy}$  when the consumer is in equilibrium? Explain.

30. Explain the two properties of a production possibilities curve. 4

31. Compute the value of MOC and giving reason comment on the shape of Production possibilities curve based on the following schedule: 4

Good –X (units)	Good –Y (units)
0	8
1	6
2	4
3	2
4	0

32. a) State why an indifference curve is downward sloping from left to right. 4  
 b) State the conditions for consumer's equilibrium, as per the indifference curve analysis.

**OR**

- a) If IC is not convex at the point of equilibrium, the consumer cannot reach the point of stable equilibrium. Comment.
- b) A consumer's budget is Rs.40. He is buying Good-1 and Good-2 at the price of Rs.8 and Rs. 10 per unit respectively. Draw a budget line on the basis of these figures.

33. Given the market price of a good, how does a consumer decide how many units of the good to buy? Explain with a numerical example. 6

34. a) A consumer buys 200 units of a good at a price of Rs.20 per unit. Price elasticity of demand is -2. At what price will he be willing to purchase 300 units? 4+2  
 b) Distinguish between normal goods and inferior goods.

**OR**

- a) According to the direction of change in total expenditure with change in the own price of the commodity, explain the three situations of price elasticity demand.
- b) State and explain any two factors that affect price elasticity of demand.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MIDTERM EXAMINATION**  
**SESSION: 2022 – 2023**

**Class: XI**

**Maximum Marks: 80**

**Subject: ENGLISH**

**Time: 3 Hours**

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**General Instructions:**

1. This paper is divided into three sections: A, B and C.
2. All the sections are compulsory.
3. Separate instructions are given with each section and question, wherever necessary.
4. Do not exceed the prescribed word limit while answering the questions.
5. Please check that this question paper contains 8 printed pages with 15 questions.

**Section A**  
**Reading Skills**

1. **Reading comprehension through unseen passage** **18 Marks**

**Read the passage given below and answer the questions that follow.**

**(10)**

These days, it is not unusual to see people listening to music or using their electronic gadgets while crossing busy roads or travelling on public transport, regardless of the risks involved. I have often wondered why they take such risks: is it because they want to exude a sense of independence, or is it that they want to tell the world to stop bothering them? Or is it that they just want to show how cool they are?

Whether it is a workman or an executive, earphones have become an inseparable part of our lives, sometimes even leading to tragicomic situations. The other day, an electrician had come to our house to fix something. We told him in detail what needed to be done. But after he left, I found that the man had done almost nothing. It later turned out that he could not hear our directions clearly because he had his earphones on.

Hundreds of such earphones addicts commute by the Delhi Metro every day. While one should not begrudge anyone their moments of privacy or their love for music, the fact is 'iPod oblivion' can sometimes be very dangerous. Recently, I was travelling with my wife in the Delhi Metro. Since the train was approaching the terminus, there weren't too many passengers. In our compartment, other than us, there were only two women sitting on the other side of the aisle. Suddenly, I spotted a duffel bag. The bomb scare lasted for several minutes. A youth suddenly emerged from nowhere and picked up the bag. When we tried to stop him, he looked at us, surprised. Then he took off his earpieces, lifted the bag, and told us that the bag belonged to him and that he was going to get off at the next station.

We were stunned but recovered in time to ask him where he was all this while. He answered that he was in the compartment, leaning against the door, totally immersed in the music. He had no clue about what was going on around him. When he got off, earplugs in his hand, we could hear strains of the song.

**On the basis of your reading of the passage, answer the following questions.**

**1×10=10**

- i. The reason for people listening to music or using their electronic gadgets while crossing busy roads or travelling on public transport is that they..... .

**1**

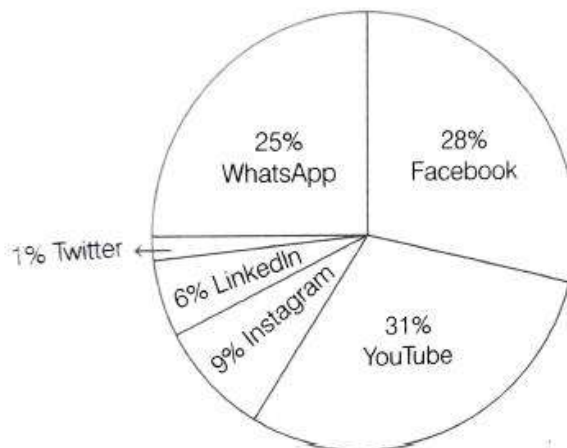
- (A) do not want to be disturbed  
(B) want to show how fashionable they are  
(C) want to show their independence  
(D) All of these

- ii. Why had the electrician not done anything? 1  
 (A) Because he hadn't heard the instructions.  
 (B) Because he was not listening to music.  
 (C) Because he was not interested in the job.  
 (D) Because he couldn't understand what needed to be fixed.
- iii. The word *restrain/hold* is the antonym of the word - 1  
 (A) Aisle  
 (B) Exude  
 (C) Begrudge  
 (D) Duffel
- iv. Which of the following correctly lists the tone with which the author had written the passage? 1  
 1. Humorous  
 2. Sarcastic  
 3. Serious  
 4. Informative  
 5. Resentful  
 (A) 1 and 5  
 (B) 2 and 4  
 (C) 3 and 5  
 (D) 1 and 4
- v. 'iPod Oblivion' can be defined as - 1  
 (A) the popularity of music.  
 (B) the carelessness of people in metro.  
 (C) the carelessness of people while listening to music.  
 (D) the forgetfulness of people.
- vi. The author says that we should not resent earphone addicts who - 1  
 (A) indulge in their love for music.  
 (B) want privacy.  
 (C) don't want to speak to anybody.  
 (D) only (A) and (B)
- vii. The bomb scare happened because the bag- 1  
 (A) was battered.  
 (B) seemed to be abandoned.  
 (C) consisted of wires.  
 (D) looked suspicious.
- viii. The passengers were stunned because - 1  
 (A) the youth was careful.  
 (B) the bag contained a bomb.  
 (C) the youth had not been visible anywhere near the bag earlier.  
 (D) None of the above.
- ix. Explain the statement – “earphones have become an inseparable part of our lives.” 1
- x. The synonym of '**absorbed**' used in paragraph 4 is..... 1



2. 1. The term Internet Addiction (IA) was first introduced in 1996 by Goldberg, who related it to substance dependence. IA can be defined as the maladaptive pattern of internet use which is time-consuming and leads to clinically significant impairment or distress. The symptoms of IA include tolerance, withdrawal, and lack of control, relapse, and a large amount of time spent online. Internet Addiction generally consists of four elements namely, excessive use, withdrawal, tolerance and negative social repercussions. (8)
2. Considering the recent report on the addiction of internet in India, in 2018, All India Institute of Medical Sciences (AIIMS) claimed that the number of people visiting with the complaints of internet addiction has almost doubled since the launch of the facility two years ago. It is not only about the internet but is the symptomatic expression of other psychological problems such as anger, low self-esteem, isolation and depression.
- World Health Organisation (WHO) in June 2018 classified gaming disorder as a mental health condition, thus establishing the concern for the technology-oriented era on people. Further, as per the news, a London Hospital is also preparing to launch the first-ever internet addiction centre for young people and adults funded by the National Health Service (NHS).
3. Smartphones represent the edge of the evolution of information technology. As per the New Zoom's Global Market Report 2018, smartphone penetration in India is 28.5%, which constitutes 386,934,000 smartphone users.
4. The survey indicated the presence of addiction for 1.3% for internet (2% males and 0.6% females) and mobile phone overuse (4.1% -2.5% males and 1.5% females).
5. Recent researches have shown a positive correlation between internet addiction and frequent use of smartphones, indicating a higher frequency of internet-based use of smartphone applications, priority being social networking sites and gaming applications.
6. As more and more people are getting involved in the internet and are getting addicted; thus, they have adopted the practice of 'Internet fasting' by deliberately spending time offline. Internet fasting can be defined as the re-evaluation of one's lifestyle to learn appropriate ways to use the internet by maintaining the distance from digital life.

**Number of users of social networking sites in India**



**On the basis of the understanding of the passage, answer the following questions.**

**1×8=8**

- i. According to the author of the passage, the outcome of the advent of smartphones in the market is that..... . 1
- (A) it marked the evolution of information technology.
- (B) the number of smartphone users exploded in the recent years.

- (C) it triggered an increase in the number of people suffering from Internet Addiction.
- (D) it encouraged more people to become tech-savvy.
- ii. Select the correct inference with reference to the following. **AIIMS claimed that the number of people visiting with the complaints of Internet Addiction has doubled.** 1
- (A) AIIMS has expanded its facility.
- (B) The number of people reaping the benefits of the facility has increased.
- (C) AIIMS is one of the best health care facilities in India.
- (D) Technology has taken a toll on people's health.
- iii. As per paragraph 1, Internet Addiction is in a way responsible for.... 1
- (A) promotion of smartphones.
- (B) expansion of internet facilities.
- (C) improvement of social behaviour.
- (D) increasing clinical attention.
- iv. The survey mentioned in paragraph 4 establishes the fact that..... 1
- (A) Addiction is a major problem.
- (B) The overuse of mobile phone is a major threat to the younger generation.
- (C) Males are more vulnerable to addiction than females.
- (D) Internet addiction is more prevalent than mobile phone overuse.
- v. The concluding paragraph conveys the message that..... 1
- (A) it requires will of the people to lead a healthy life.
- (B) technology should be used sparingly.
- (C) Internet should be used by more females.
- (D) Internet and addiction are unavoidable.
- vi. WHO in June 2018 classified gaming disorder as a mental health condition. The above statement indicates that 1
- (A) WHO is against the use of Internet.
- (B) gaming disorder is a recognised global health issue.
- (C) there is a need for ban on mobile games.
- (D) there is a need to dissuade people from using smartphones.
- vii. What is Internet fasting? 1
- viii. 'A London Hospital is also preparing to launch the first-ever internet addiction centre'. What does this statement mean? 1
3. Fashion is a force - a powerful force of constantly altering patterns of change and growth. Its constant movement affects the fate of the designers and manufacturers who distribute it, and of course, the lives of the consumers who follow what it dictates. All of its facets taken together add up to a multi-million dollar industry. Fashion today means mega bucks. (8)
- Fashion is also a science. Surprising, isn't it? However, it is well-known that it involves known facts and basic principles and its actions and reactions can be predicted, as these are based on those facts and principles. Fashion is one of those distinct and unique trades that is highly dependent on the environment and the changes that are continuously taking place in it. These have to be understood by the designers if they want to become successful.
- For one to make it to the top in the fashion business and stay there, one has to continue to discover and innovate to fulfil the needs and wants of the customers. For this, most of the top designers such as, Yves Saint Laurent, Karl Lagerfeld, Claiborne etc., all rely upon their creativity backed by years of invaluable experience. In this line of work, instinct and intuition play a very major role besides the knowledge of past successes and failures.
- As the power of fashion to influence our lives grows, a number of misconceptions about it continue to abound. The most common of these is that designers and

retailers dictate what fashion will be, by accepting or rejecting the styles and trends that are offered. They are truly, as one 'fashion guru' once said, "Variety Vultures". However it is not so- actually customers dictate the trends.

The second misconception is that fashion acts as an influence on women only. However, actually, men today are as much influenced by, and responsive to, fashion as women. The male fashion industry has been growing at a dizzying rate. Yes, there was a time when men's wear was not exactly worth talking about. It was staid and unimaginative. But that does not mean that men did not dress up according to the latest trend of the day.

Fashion today is more lifestyle oriented and quite practical. The modern male and female want to dress differently for office and leisure. Designers are becoming more daring so that the women as well as the men have a wide choice. There are different designs for every moment of a busy social schedule- from work, lunch to afternoon tea, cocktails, dinner and gala banquets.

(a) On the basis of your reading of the above passage make notes on it using headings and sub-headings. Use recognisable abbreviations wherever necessary. Supply an appropriate title to it. 5

(b) Write a summary of the above passage within 50 words. 3

**Section B (Grammar and Creative Writing Skills) 23 Marks**

4. Fill in the blank with correct form of verb. 1×3=3

i. In the recent decades, the efficiency of the United Nation \_\_\_\_\_ (questioned) by a growing number of countries.

**OR**

Shirley \_\_\_\_\_ (write) a book about China last year but I don't know whether she has finished it.

ii. Fill in the blanks by using suitable clauses.

(a) The news \_\_\_\_\_ is true.

(b) That \_\_\_\_\_ cannot be accepted.

iii. Re-order the following sentences in a meaningful sequence. 1×4=4

(A) It was kept in the dining room waiting to be hung.

(B) A picture had come from the frame makers.

(C) "Oh, you leave that to me I'll do the job", Uncle Podger said.

(D) Aunt Podger asked what was to be done with it.

**Creative Writing Skills**

5. You are the General Manager of Ivory Software Solutions, Durgapur. You need a Software Engineer for your organization. Draft an advertisement with necessary details in not more than 50 words to be published in The Times of India under the classified columns. (16)  
3

**OR**

You have a three bedroom flat in Asansol which you want to let out on rent. Draft an advertisement with necessary details in not more than 50 words to be published in The Telegraph under the classified columns.

6. Recently the Prime Minister of India has appealed to the citizens of India to conserve water and go in for rain water harvesting on a mass scale. Design a poster (in not more than 50 words) for making the people aware of this important concept. 3

**OR**

You are the secretary of the Best Friends Animal Society. Prepare a poster (in not more than 50 words) on kindness to animals to be displayed in the city at public places appealing people to join the society and show kindness towards animals.

7. Suppose on the occasion of International Yoga Day, your school has organised a mass yoga in the morning assembly. You are Karan/Kiran, the Sports Captain of the school. You have been assigned the responsibility to deliver a speech emphasising on the efficacy of Yoga towards a happier, healthier and peaceful life. Draft a speech within 120-150 words on 'Yoga – a way of life'. 5

8. Suppose you are participating in an Inter School Debate Competition where the motion for the debate is 'In the opinion of the house, internet is the cause of lack of creativity and originality among students'. Draft a debate in 120-150 words either for or against the motion.

5

OR

'Our large population is not a cause of poverty but an asset, a resource.' Write a debate in 120-150 words either for or against the motion.

**Section C Literature**

**31 Marks**

9. Read the extract given below and answer the questions that follow.

1×3=3

*It is the engine of her family.*

*She stokes it full, then flirts out to a branch-end*

*Showing her barred face identity mask*

- i. The literary device used in the first line is a ..... .

(A) simile  
(B) personification  
(C) alliteration  
(D) metaphor

- ii. The expression 'barred face' means..... .

(A) the bird seems to be behind the bars  
(B) a face that is partially visible  
(C) a striped face  
(D) a painted face

- iii. Explain- 'she stokes it full'.

OR

*I am the Poem of Earth, said the voice of the rain,*

*Eternal I rise impalpable out of the land and the  
bottomless sea,*

*Upward to heaven, whence, vaguely form'd, altogether  
changed, and yet the same*

- i. The meaning of the expression, "I am the Poem of Earth" is best illustrated by.....

(A) the rain is a beautiful, creative force of the earth  
(B) the falling rain inspires poets to write poems  
(C) the rain is personified as a poet  
(D) the rain is the voice of the people

- ii. Two other qualities of rain as described in the extract are....

(A) gentle and humble  
(B) bottomless and boundless  
(C) cyclic and transforming  
(D) lifeless and life-giving

- iii. Explain the expression, "altogether changed, and yet the same".

10. Read the extract given below and answer the questions that follow.

1×3=3

*They remain the richest royal collection ever found and have become part of the pharaoh's legend. Stunning artefacts in gold, their eternal brilliance meant to guarantee resurrection, caused a sensation at the time of the discovery — and still get the most attention. But Tut was also buried with everyday things he'd want in the afterlife: board games, a bronze razor, linen undergarments, cases of food and wine.*

- i. In the above extract, 'they' refer to.....

(A) scientists  
(B) ministers of Tut  
(C) things which were found in the tomb.  
(D) None of the above

ii. Which of the following was not found at the time of discovery?

- (A) Utensils
- (B) Jewellery
- (C) Gold Artefacts
- (D) Both (A) and (B)

iii. What do you mean by 'resurrection'?

**OR**

*At dawn on January 2, the waves were gigantic. We were sailing with only a small storm jib and were still making eight knots. As the ship rose to the top of each wave we could see endless enormous seas rolling towards us, and the screaming of the wind and spray was painful to the ears. To slow the boat down, we dropped the storm jib and lashed a heavy mooring rope in a loop across the stern.*

i. Which figure of speech has been used in this line 'the waves were gigantic'?

- (A) Simile
- (B) Oxymoron
- (C) Irony
- (D) Hyperbole

ii. 'Screaming of the wind' here means.....

- (A) sound of wind
- (B) direction of wind
- (C) speed of wind
- (D) stormy wind

iii. Which kind of fear was evident in the mind of the author during the incident given in the extract?

**11. Read the extract given below and answer the questions that follow.**

**1×4=4**

*I was home for a few days and it struck me immediately that something or other about the rooms had changed. I missed various things. My mother was surprised I should have noticed so quickly. Then she told me about Mrs Dorling. I had never heard of her but apparently she was an old acquaintance of my mother, whom she hadn't seen for years. She had suddenly turned up and renewed their contact. Since then she had come regularly.*

i. Which of the following aspects was noticed by the narrator?

- (A) Her mother was surprised.
- (B) Various things were missing.
- (C) Room has changed with different items.
- (D) Didn't witness anything different.

ii. The mother of the author was surprised because.....

- (A) her daughter has changed completely.
- (B) her daughter did not inform about her visit.
- (C) her daughter quickly noticed the changes in the house.
- (D) her daughter was upset.

iii. Who was Mrs. Dorling?

iv. How was the narrator's family associated with Mrs. Dorling?

**OR**

*A lovely name, John Byro said, for a lovely horse. I could swear it is the horse that was stolen from me many weeks ago. May I look into his mouth?*

*Of course, Mourad said.*

*The farmer looked into the mouth of the horse.*

*Tooth for tooth, he said. I would swear it is my horse if I didn't know your parents.*

*The fame of your family for honesty is well known to me. Yet the horse is the twin of my horse. A suspicious man would believe his eyes instead of his heart. Good day, my young friends.*

i. What is the 'lovely name' of the horse?

- (A) Beauty
- (B) My Heart
- (C) Lovely
- (D) White Heart

ii. Why did the horse's owner refuse to believe that the boys had stolen his horse?

- (A) Because he didn't examine the horse carefully.
- (B) Because he had found his horse elsewhere.
- (C) Because their family was known for honesty.
- (D) Because his horse had a twin.

iii. Why did John Byro say, 'Yet the horse is the twin of my horse'?

iv. What do you mean by 'A suspicious man would believe his eyes instead of his heart'?

**12. Answer the following questions in 40-50 words each.**

**3×2=6**

- i. Bring out the significance of the phrase 'winter landscape' in the context of the narrator's grandmother in '*The Portrait of a Lady*'.

**OR**

Why did the Captain get no replies for his 'Mayday calls'?

- ii. Why do you think the poet, Markus Natten, feels that his childhood has hidden itself in an infant's face?

**OR**

How does the rain justify its claim, 'I am the Poem of the Earth'.

**13. Answer the following question in 40-50 words.**

**3**

Why did Mourad say, "I have a way with farmers"?

**OR**

'Of all the things I had to forget, that would be the easiest'. Why did the narrator intend to forget the address so easily?

**14. Answer the following question in 120-150 words.**

**6**

In 'A Photograph' the poet has paid tribute to her mother. Similar instances can be seen in 'The Portrait of a Lady' where the writer pays tribute to her grandmother. Do you think writing about a loved one can make that person immortal? Justify your answer.

**OR**

'Archaeology has changed substantially in the intervening decades, focusing less on treasure and more on the fascinating details of life and intriguing mysteries of death'. How did the modern technology open up a new horizon of archaeological survey and re-telling history?

**15. Answer the following question in 120-150 words.**

**6**

In today's materialistic world where greed and money are the compelling motives, the example of Garoghlanian tribe can teach us many things- to be honest, to discriminate between right and wrong. How do Mourad and Aram rise up to safeguard the age-old reputation of their tribe?

**OR**

Betrayal of trust is an evil which may afflict people of any time or any age. Discuss with reference to the story 'The Address'.

**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**

**MID TERM EXAMINATION**

**SESSION – 2022-2023**

**CLASS – XI**

**SUBJECT – ENTREPRENEURSHIP**

**MAX. MARKS -70**

**TIME – 3Hours**

1. Before the pandemic, while some businesses invested significant time, effort, and capital into digital transformation, others weren't too concerned about digitalising their offerings. However, **Covid-19 has forced organisations across the globe to take radical steps towards adopting technological advancements to secure their business as entrepreneurs have now started** visualizing that there are opportunities for a particular type of business and it can be profitably run. 1

Which of the following promotional function is highlighted here:

- A. Financing the Proposition
- B. Detailed investigation
- C. Assembling the requirements
- D. Discovery of an idea

Or,

KFC was started in Corby, Kentucky, USA by Sanders. He was operating a gas service station. He noticed that the travellers visiting his service station were hungry and looking for some eatables. Sanders knew a secret blend of 11 herbs and spices with which he can prepare tasteful chicken recipe. He started to serve this recipe to the travellers. This recipe became a bit hit and to cope up the demand he started a restaurant. This led to the inception of "KFC-Kentucky Fried Chicken". Identify the entrepreneurial function stated in the above line.

- A. Planning
- B. Discovery of an idea
- C. Accounting
- D. Assembling the requirements

2. "An individual, who undertakes the formation of an organization for commercial purposes by recognizing the potential demand for goods and services, and there by acts as an economic agent and transforms demand into supply". 1

The above statement describing the identity of an entrepreneur is actually quoted by---

- A. Richard Cantillon
- B. Joseph Schumpeter
- C. Adam Smith
- D. Peter F. Drucker

3. It has been established that entrepreneurs spend \_\_\_\_\_ of their working time communicating with others. 1

It has been established that entrepreneurs

- A. 70% to 90%
- B. 75% to 95%
- C. 75% to 90%
- D. 70% to 80%

Or,

The successful entrepreneurs design their businesses to work with little cash.

In the light of above statement, state the amount of money that a typical start-up requires on an average to get going.

- A. Rs.2,50,000/-
- B. Rs.2,00,000/-
- C. Rs.1,50,000/-
- D. Rs.1,00,000/-

4. On an average, entrepreneurs earn 4% to 15% less per year than their wage-earner counterparts, work longer hours, experience higher income risk, and their earnings rise less quickly over time. Only a small fraction of entrepreneurs ends up making a lot more money than they did as employees. The above report sourced from an article focuses on which of the following myths regarding Entrepreneurship: 1
- It takes a lot of money to finance a new business.
  - Most of the entrepreneurs are successful financially
  - Starting a business is easy
  - All of these
5. In a developing country like India which follows a mixed economy, the role of both the government and the private entrepreneurs is equally important. The role of the private entrepreneurs has further increased because of the liberal economic policies followed by the Indian government since the year: 1
- 1990
  - 1991
  - 1980
  - 2000

Or,

The word 'entreprendre' means-----

- To initiate
  - To undertake
  - To create
  - To build
6. Given below are the functions of Entrepreneur and their description. Match them correctly. 1

Functions	Description
i. Financing the Proposition	a. sets up the objectives or goals to be achieved by the personnel.
ii. Organizing	b. deciding about the capital structure of the enterprise
iii. Motivation	c. guides and influences the work of others in choosing and attaining specified goals.
iv. Leadership	d. considering the psychological, social, safety, ego and economic needs of the workers.

- i-b, ii-d, iii- c, iv-a
  - i-b, ii-a, iii- d, iv-c
  - i-c, ii-b, iii- d, iv-a
  - i-d, ii-c, iii- a, iv-b
7. Which among the following is true in respect of entrepreneurs and entrepreneurship: 1
- Start-ups can be financed with debt
  - Banks don't lend money to start-ups
  - Most entrepreneurs start businesses in attractive industries
  - All of these

Or,

Which among the following is not true in respect of entrepreneurs:

- Due to its high capacity for risk, there is no adventure in starting a business
- They are not being paid what they are worth
- There will undoubtedly be fewer benefits specially when the business will be just starting off
- All of these



8. The process begins with 1
- I. Establishing standards of performance.
  - II. Measuring actual performance.
  - III. Comparing the actual performance with the standard.
  - IV. Finding variations and finally, taking corrective action.

The steps mentioned above belong to which of the following Managerial function of an entrepreneur:

- A. Planning
- B. Organizing
- C. Supervision
- D. Controlling

9. Kodak, a company that happened to be the market leaders in producing analog cameras but they did not realize the change and the introduction of the Digicam. For what they lost their leadership, having lost the leadership they have diversified the business in producing the Digicams instead of producing Analog cameras. 1

The above story reflects characteristics of which of the following type of entrepreneurs:

- A. Drone Entrepreneurs
- B. Fabian Entrepreneurs
- C. Innovative Entrepreneurs
- D. Technical entrepreneurs

10. Which of the following statement is not correct for a Fabian entrepreneur? 1
- A. They are very cautious
  - B. They are rigid and fundamental
  - C. They follow the footsteps of their predecessors
  - D. They are not ready to make changes or imitate at any cost

11. Some times prospective entrepreneurs are forced by their special circumstances, such as – loss of job or inability to find a job suitable for their talent, to adapt to entrepreneurship. Till a few years back, import restrictions and reservation of certain products for Small Scale Sector encouraged a large number of entrepreneurs to set up their small-scale units. Presently venture funds are helping the successful IT professionals to become entrepreneurs. 1

Identify the type entrepreneurs talked about here:

- A. Motivated Entrepreneurs
- B. Spontaneous Entrepreneurs
- C. Induced Entrepreneurs
- D. None of these

(Or),

It might be the best-selling console in the world today, but Sony's PlayStation only happened because a junior employee tinkered with his daughter's Nintendo.

Ken Kutaragi spent hours trying to make the console more powerful and user-friendly but his idea was reportedly rebuffed by many Sony bosses – hesitant at joining a gaming industry they considered a waste of time. One senior employee spotted value in Kutaragi's innovative product and the rest, as they say, is history.

The above example refers to which of the following Concept.

- A. Technical Entrepreneurship
- B. Innovative Entrepreneurship
- C. Creative Entrepreneurship
- D. Intrapreneurship

12. **Column A** has certain examples and **Column B** has the different competencies of an entrepreneur that these examples may reflect. Match them correctly. 1

Column A	Column B
i. When Dhirubhai Ambani faced cash crunch he started issuing shares in 1977 to the public when they were not that aware about share market.	a. Quality Performance
ii. Ratan Tata shifted the manufacturing plant of Nano cars from Singur to Sanand due to unforeseen complexities.	b. Persistence
iii. When Mahima Mehra brought out her product – Haathi Chaap, she had experimented on various other materials before using elephant dung to manufacture handmade paper.	c. Problem Solving
iv. Steve Jobs, the brain behind Apple and I-pod, is known to value quality in all the products introduced by the company.	d. Risk Taking and Risk Management

- A. i-b, ii-d, iii- c, iv-a  
 B. i-b, ii-a, iii- d, iv-c  
 C. i-c, ii-b, iii- d, iv-a  
 D. i-d, ii-c, iii- b, iv-a

13. 1



Such an action or the shift in packaging initiated by the Hair oil company reflect which specific core value:

- A. Innovation and Creativity  
 B. Risk taking  
 C. Problem solving  
 D. Achievement orientation
14. Given below are the universal needs of people identified by Maslow and their description. Match them correctly. 1

Universal needs	Description
i. Physiological needs	a. the desire for reputation, prestige, status, fame, glory
ii. Safety needs	b. to be able to work collaboratively
iii. Social needs	c. getting something to eat, drink
iv. Esteem needs	d. desire for stability, protection, freedom from fear and anxiety

- A. i-b ,ii-d ,iii- c ,iv-a  
 B. i-c ,ii-d ,iii- b ,iv-a  
 C. i-c ,ii-b ,iii- d ,iv-a  
 D. i-d ,ii-c ,iii- a ,iv-b

15. Imitative Entrepreneur is one\_\_\_\_\_ 1

- A. who is aggressive in nature who exhibit cleverness in putting attractive possibilities into practice.  
 B. who usually copies or adopts suitable innovations  
 C. who is very cautious

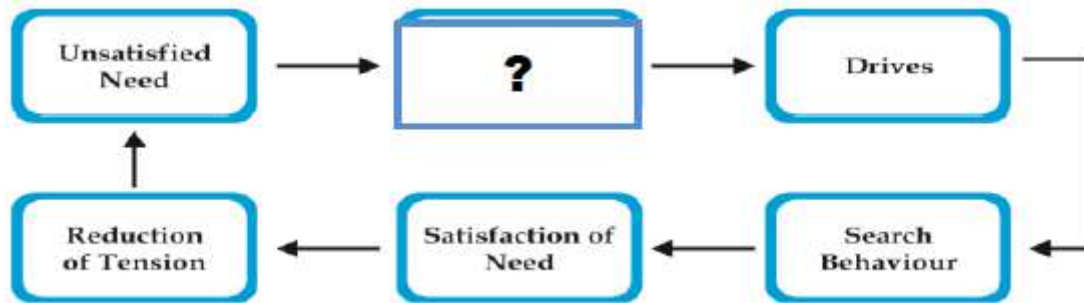
- D. who imitate only when they are sure that failure to do so would result in a loss of the relative position in the enterprise.

Or,

Identify the statement which is not correct for Imitative Entrepreneurs:

- A. They are adaptive and more flexible
- B. They are organisers of factors of production rather than creators
- C. They are the one who built the modern capitalism
- D. They contribute to the development of underdeveloped economies

16.



1

Above is the picture depicting model of Motivation process.

Identify the element that can be put in place of question mark(?) to complete the process:

- A. Tension
- B. Problems
- C. Motivation
- D. Affection

Or,



The creator of this theme park may belong to \_\_\_\_\_(innovative/imitative) category of entrepreneur.

17. **Assertion (A):** Diplomats are considered to be the best of the specialist entrepreneurs.

1

**Reason (R):** They have both sociability and drive in their personalities.

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

18. Which of the following statement is not true for Brain storming as a way to generate idea?

1

- A. A group of persons sit together to generate ideas
- B. Involves alternative innovative ways of solving problem
- C. Very productive approach of generating number of ideas
- D. Information about product or service is provided in a structured setting

Or,

The information gathered and presented in a feasibility study will help entrepreneurs to:

- A. List in detail all the things they need to make the business work
- B. Identify logistical and other business-related problems and solutions
- C. Develop marketing strategies to convince a bank or investor
- D. All of these

19. Given below are the few details of a proposed Business Plan and the headings under which they need to be covered. Match them appropriately. 1

Column I(Details)	Column II(Headings)
i. Products to be offered and scale of operation	a. Production Plan
ii. Identification of business, associated partners/members etc.	b. Human Resource Plan
iii. Logistics for distribution	c. Marketing Plan
iv. Categories of staff required	d. Organizational Plan

- A. i-b ,ii-d ,iii- c ,iv-a  
B. i-c ,ii-d ,iii- a ,iv-b  
C. i-a ,ii-d ,iii- c ,iv-b  
D. i-d ,ii-c ,iii- a ,iv-b
20. Following are the types of feasibility study and their details in Column I and II respectively. Identify the correct pairs from the option given below. 1

Column I	Column II
i. Technical Feasibility	a. materials, labour, transportation, where the business will be located,
ii. Market Feasibility	b. sources of capital, returns on investment
iii. Organisational Feasibility	c. potential, competition, sales projections, potential buyers
iv. Financial Feasibility	d. legal and corporate structure of the business

- A. i-b ,ii-d ,iii- c ,iv-a  
B. i-c ,ii-d ,iii- a ,iv-b  
C. i-a ,ii-c ,iii- d ,iv-b  
D. i-d ,ii-c ,iii- a ,iv-b
21. Manohar wants to start a business after completing his studies. However, he does not have any business idea. He does a systematic and in-depth study to obtain useful data to determine demand and supply position for the similar product that is already available. Such research helped him in getting new ideas for his products. 1
- Identify the structured approach adopted by Manohar to Generate Ideas.
- A. Brainstorming  
B. Focus Group  
C. Creative problem solving  
D. Market Research

22. **Source: MSG** 2
- MANAGEMENT STUDY GUIDE**

Some famous examples of entrepreneurs who have succeeded despite heavy odds because they had game changing ideas and more importantly, they also had the necessary traits and skills that would make them legendary. For instance, both the founder of Microsoft, Bill Gates, and the late Steve Jobs, the founder of Apple, were college dropouts though their eventual success meant that they had not only truly innovative ideas, but they were also ready to strike it out for the longer term and hang on when the going got tough. Even the founder of Facebook, Mark Zuckerberg, as well as Google's Larry Paige and Sergey Brian can be considered as truly revolutionary entrepreneurs.

What all these Legendry Entrepreneurs have in common?

23. **Defend or refute the following statement with proper justification.** 2
- Most entrepreneurs start businesses in attractive industries.

24. Mr. Ram babu an entrepreneur is running a leading consultancy firm is concerned about interpersonal relationship among his employees and accordingly he always emphasized on creating an environment in his firm where workers can develop a strong desire to belong and enjoy the teamwork. He thinks these are needed to reduce uncertainty. 2
- a) What form of motive as pointed by David McClelland in his Theory of Needs does this case story exhibits?
- b) Name the other two needs described by McClelland in his theory.
25. They are the type of entrepreneurs who usually have multiple ideas and never stick to one venture. 2
- They start a business, get everything running and then sell it.
- Who are they?

26. 2
- 

What potential challenge to Women Entrepreneurs is depicted in the picture above.  
Also mention two other challenges.

27. “Entrepreneurship is the yardstick to measure the level of development of a country”. 3
- Justify the given statement. (Give any two points).
28. State differences between Entrepreneur and Employee. 3
- Or,
- Differentiate between technical and non-technical entrepreneur.
29. Rohit has decided to open a new business of supplying sports equipment to the Sports Authority of India. He decided to charge the least possible for his products and to source them from small scale units. He tried to urge Sudhakar to join his business. Before giving his final answer, Sudhakar wants to know about the products to be offered, scale of business operation and the type of technology used. 3
- a) Which part of Business Plan should Sudhakar look into?
- b) Also state any two components of Production Plan.
30. State and explain two advantages and two disadvantages of being an entrepreneur. 4
31. The experience a person had after using a cell phone might form a positive or negative attitude towards the manufacturing company of that phone. 4
- Similarly, the experience a person had with the waiter in a restaurant might form a positive or negative attitude about the restaurant itself.
- a) Which of the following feature of Attitude is reflected in above case study?
- b) State and explain two other features.
32. State any four features or Importance of Feasibility Study. 4
- Or,
- State any four basic processes and fundamentals that an entrepreneur needs to be followed to manage the execution of a business plan.
33. Shivi, a dropout from 10<sup>th</sup> std is forced by her mother to start working as a domestic help. **Shivi agrees on the condition to do only cooking in 2-3 houses. One family turns out to be Punjabi, another Gujrati and the third one is Rajasthani. She cooked their kind of food for a year and to everyone’s surprise, she expressed her desire to open up a small eating joint of her own.** All alone, determined, she finally opens “Apna Bhoj”, a small eating joint with her savings and it became a hot spot because of the fusion food platter being offered. 6
- Identify the step of Process of Entrepreneurship in the highlighted paragraph Shivi is involved in.
- State and explain the next three steps that follows.

34. What do you mean by 'Business Ethics'? Enlist any four ethical standards that entrepreneurs need to follow in their business practices. 6
35. State and explain importance of evaluating ideas. 6

Or,

Difference between Feasibility study and Business Plan on the basis of following:

**Meaning**

**Objective and**

**Linkage.**

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# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## MID TERM EXAMINATION

SESSION: 2022 – 2023

CLASS : XI

SUBJECT : GEOGRAPHY

MAXIMUM MARKS : 70

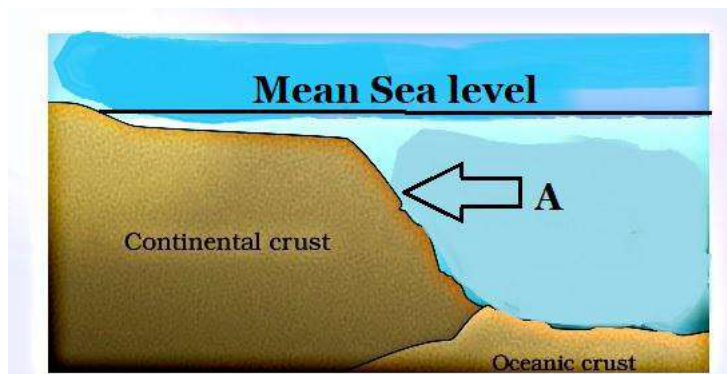
TIME : 3 HOURS

### General Instructions :

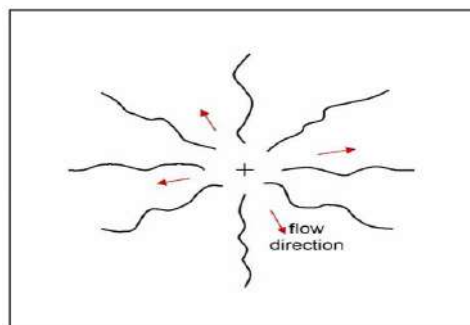
- Section A: Question number 1 to 15 are very short answer type questions, carrying 1 mark each.
- Section B: Question number 16 is a case-based question, 17 to 20 are short answer type questions carrying 3 marks.
- Section C: Question number 21 to 26 are long answer type questions, carrying 5 marks each.
- Section D: Question number 27 to 28 are map based questions, carrying 1 mark each.
- The map provided must be attached with the copy.

### SECTION - A

1. Which of the following statement/s given below is/are correct? 1
1. Biogeography is a branch of geography which is based on regional approach.
  2. Biogeography has developed due to interface between physical and human geography.
- A. Only 1 is correct  
B. Only 2 is correct  
C. Both 1 & 2 are correct  
D. Both 1 & 2 are false.
2. Study the diagram carefully and identify the area marked as A from the options given below. 1



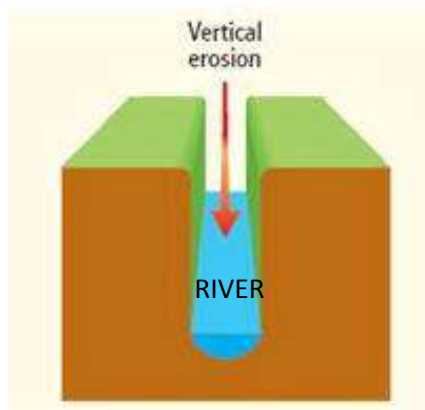
- A. Continental shelf  
B. Abyssal plain  
C. Continental slope  
D. Continental plateau
3. Identify the drainage pattern from the following diagram. 1



- A. Centripetal drainage  
B. Dendritic drainage  
C. Trellis Drainage  
D. Radial drainage



4. Which of the following city has the highest diurnal range of temperature? 1  
 A. Bangalore  
 B. Leh  
 C. Jodhpur  
 D. Pune
5. How can you explain the absence of primordial gases in the terrestrial planets? 1
6. Identify the feature given below & write one characteristic of it. 1



7. State the reason – There is a general understanding among countries of the world to select the Standard Meridian in multiple of  $7^{\circ}30'$ . 1
8. Match the correct pairs from the table given. 1

Table A	Table B
1.Son	i) Krishna
2.Tungabhadra	ii) Yamuna
3.Chambal	iii) Godavari
4.Penganga	iv) Ganga

- A. 1- ii ; 2- ii ; 3- i ; 4 – iii .  
 B. 1 - iv ; 2 - i ; 3 – ii ; 4 – iii .  
 C. 1 – iii ; 2 – iv ; 3 – i ; 4 – ii .  
 D. 1 – iii ; 2 – ii ; 3 – i ; 4 – iv .
9. Name the river basin that is famous for its bad land topography? 1
10. Identify the wind circulation from the following statements - 1  
 i) During winter this wind is bifurcated into two branches due to the physical obstruction of Tibetan plateau.  
 ii) This wind usually influences the weather of north & north western India.  
 iii) The western cyclonic disturbance is dragged by this wind in India.
- Q. No.11 to 15 is assertion reason-based question. Choose the correct option given below to answer these questions –
- A. Both A and R is true, and R is the correct explanation of A.  
 B. Both A and R is true, and R is not the correct explanation of A.  
 C. A is true, but R is false  
 D. A is false, but R is true
11. Assertion(A): The rim of Pacific is also known as the Pacific ring of fire. 1  
 Reason(R): There are active volcanoes in the mid Pacific ridge.
12. Assertion(A): Deposition and lateral erosion is essential for the formation of braided channel. 1  
 Reason(R): The river carries less volume of water and more load that leads to the formation of islands of sand, gravel, pebbles develop on the floor of the channel and the water channel is divided into multiple thread.
13. Assertion(A): Some of the important physiographic features of peninsular plateau are tors, block mountains, rift valleys, spurs and series of hills. 1  
 Reason(R): The peninsular plateau has undergone recurrent phases of upliftment and submergence over the geological period of time.



14. Assertion(A): River system can continue to cut down its valley at approximately at the same rate as uplift and so maintain its general pattern and direction. 1  
Reason(R): In case of antecedent rivers, the rivers are said to have originated before the period of upliftment resulted due to the movements of tectonic plates.
15. Assertion (A)– The northern part of India lies in tropical zone whereas the southern part lies in the sub-tropical zone. 1  
Reason(R) – The Tropic of Cancer passes through the central part of India in east-west direction.

### SECTION - B

16. **Source Based Questions** 1X3

Read the following passage and answer the following questions:

Three centuries ago, the English scientist Isaac Newton calculated, from his studies of planets & force of gravity, that the average density of the earth is twice that of surface rocks and therefore that the earth's interior must be composed of much denser material. The planet earth is made up of three main shells, the very thin brittle crust, the mantle and the core. The boundary between crust and mantle is called the Mohorovicic Discontinuity or simply Moho. No one has ever seen the boundary, but it can be detected sharp increase downward in the speed of earthquake waves. The discontinuity is presumed to be a change in the rock types. Our knowledge of the upper mantle including the tectonic plates, is derived from analysis of earthquake waves, heat flow, magnetic and gravity studies. The upper mantle is also called as Asthenosphere. The very slow motion of lithospheric plates floating on the asthenosphere is the cause of plate tectonics, a process associated with mountain building movements, volcanic activity and earthquake.

i. Moho discontinuity means:

- A. The boundary between crust and core.
- B. The boundary between crust and mantle.
- C. The boundary between mantle and core.
- D. The discontinuity in between asthenosphere and core.

ii. The velocity of earthquake waves changes with the –

- A. increase in depth.
- B. decrease in depth.
- C. increase in heat flow.
- D. increase in mountain building movements.

iii. The main cause for the earth quake and volcanic activity on the surface of the earth is

- A. The Mohorovicic Discontinuity
- B. Magnetic and Gravity Discontinuity
- C. High speed of earthquake waves.
- D. Slow motion of lithospheric plates on the Asthenosphere.

17. In the light of Big Bang theory explain the term 'singularity'. What is expanding Universe theory? 1+2=3
18. "All types of weathering often go hand in hand"- Discuss. 3
19. Enlist and explain any three significant features of Central Highland. 1+1+1=3

OR,

Write a short note on Darjeeling and Sikkim Himalaya.

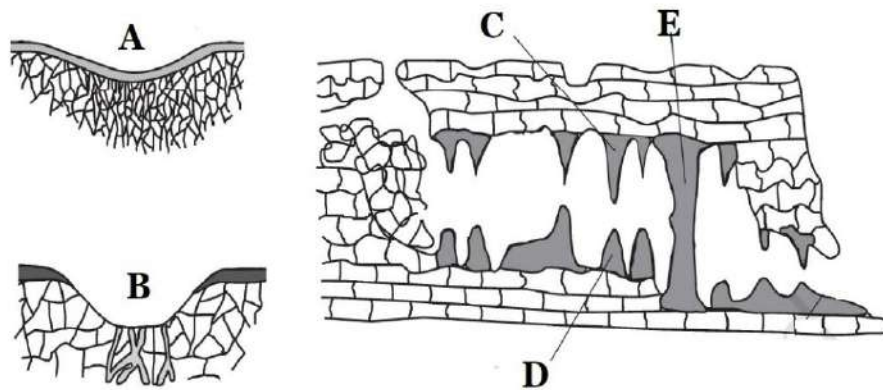
20. What are the implications of having a long coastline in India? 3

### SECTION - C

21. Write an essay on the Theory of Plate Tectonic. 5
22. "Mass movements do not come under erosion though there is a shift(aided by gravity) of materials from one place to another". Justify the statement with suitable arguments. 5

23. Identify the features marked as A, B, C, D and E in the given diagram and write one characteristic of each feature.

5



**OR,**

With the help of diagrams explain the formation of any three erosional and any two depositional landforms formed due to wind action.

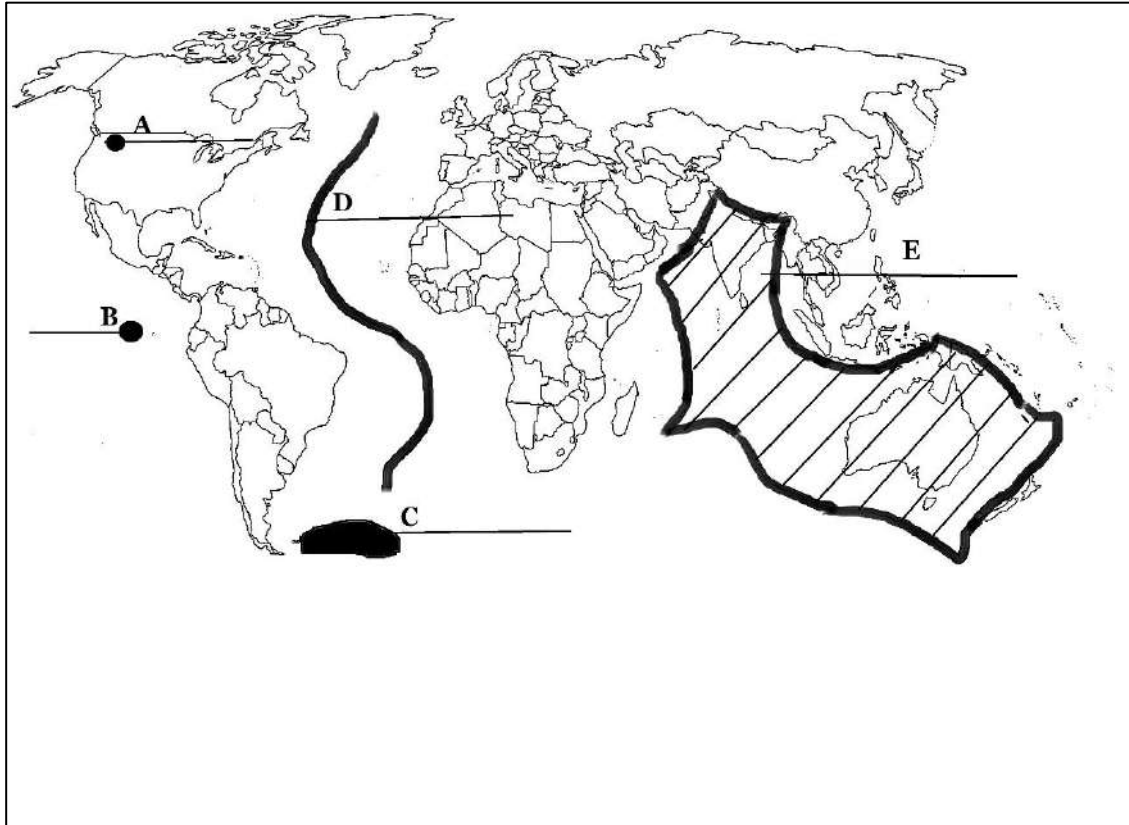
24. Differentiate the eastern coastal plain from the western coastal plain by stating five suitable points. 1x5
25. Why do the rivers on the western coast have no deltas, even though they transport a lot of sediments with them? State three main characteristics of Himalayan rivers. 2+3
26. What is the Inter Tropical Convergence Zone? How does it attract south-west monsoon? What are the important factors influencing the mechanism of weather in summer season in India? 5

#### **SECTION – D**

27. On the given political map of the world some features are marked as A, B, C, D and E. Identify them with the help of the information given and write their correct names on the lines drawn near to them. 5
- A) A hotspot in USA  
B) A hotspot in South Pacific Ocean  
C) A minor plate  
D) A Ridge.  
E) A major plate
28. A. On the given political outline map of India locate and label the following. 5
- i) Malwa plateau  
ii) Anai Mudi  
iii) River Sabarmati  
iv) Vindhya Range  
v) Dakshin Ganga

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll: \_\_\_\_\_

27.



28.



**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION – 2022-2023**

**CLASS: XI**  
**MAX. MARKS: 60**

**SUBJECT: HEALTH CARE**  
**TIME: 3 HOURS**

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*General Instructions:*

i) All questions are compulsory.

ii) The question paper comprises of 2 sections namely **A and B**.

iii) Section A : **Employability skills ( 10 marks)**

*It comprises of 4 questions of 1 mark. And 3 questions of 2 marks each.*

iv) Section B : **Subject Skills ( 50 marks )**

*It comprises of 10 questions of 1 mark each; 5 questions of 2 marks each, 5 questions of 3 marks each  
And 3 question of 5 marks.*

*There is **no overall choice** however there are **internal choices provided** in both Sections.*

**SECTION –A( Employability skills )**

- |   |  |   |
|---|--|---|
| 1 | A postal code is   | 1 |
|   | a. a group of letters or numbers used to identify a government building    |   |
|   | b. a code used to denote the door number of a house                        |   |
|   | c. a group of letters or numbers used by post office to identify a region. |   |
|   | d. A code used to identify different post offices.                         |   |
| 2 | Identify the object in the sentence , “The children played football”.      | 1 |
|   | a. The children  |   |
|   | b. Children played   |   |
|   | c. Played  |   |
|   | d. Football  |   |

OR

Identify the subject in the sentence , “The children played football”.

- |   |   |   |
|---|---|---|
| 3 | Which of the following is the correct way of thanking someone ?   | 1 |
|   | a. Thank you  |   |
|   | b. Thanks   |   |
|   | c. I really appreciate that                                       |   |
|   | d. All the above .  |   |
| 4 | Write two lines that you would communicate to introduce yourself. | 1 |

OR

Write two essential descriptions you would like to add when you introduce your friend to your classmates.

- |   |   |   |
|---|---|---|
| 5 | Write any 4 actions of Assertive Communication .  | 2 |
| 6 | Write any 4 types of non-verbal communications .  | 2 |
| 7 | What are the two main type of questions as per better communication skills ? Give one example each. | 2 |

OR

State any 4 factors that affects the perspective of communication .

**SECTION –B( Subject skills )**

- |   |   |   |
|---|---|---|
| 8 | Choose the correct option :<br>_____ is a set of practices performed for the preservation of health | 1 |
|   | a. Hygiene              b .Health              c. Environment              d.Habits                 |   |

9	What is the bed strength of a ( a)Taluka Hospital and (b) District Hospital ?	1
10	What should be the basic dressing code of a GDA?	1
11	Which department has the responsibility of ensuring quality food services to the patients according to need ?	1
12	Where is the reception of a hospital located ? .	1
	OR	
	What are the different types of thermometer to measure the temperature of patient?	
13	Professional, ethical or legal issues are followed and governed by which act ?	1
14	What does Respiration rate indicate ?	1
15	What are the two major sectors of Health Care system in India ?	1
16	State two practices that need to be avoided by GDA .	1
17	What technique is used for chest examination ?	1
	OR	
	What precautions need to be taken for spine examination?	
18	What are the components of an ideal Reception Counter ?	2
19	What are the different types of Laboratories found in hospitals ?	2
20	Why is hand hygiene important for a general duty Assistant ?	2
	OR	
	What is the importance of Personal grooming of a GDA?	
21	What are the precautions needed to measure the height and weight of an outpatient in a hospital ?	2
22	What are the scope of an OPD ?	2
	OR	
	The Administration of the entire hospital cannot be vested on the Administration alone..... Comment on the statement by mentioning the different departments of administration.	
23	Name the device that measures the blood pressure. Describe the process of blood pressure measurement of an outdoor patient.	3
24	What are the techniques of physical assessment used in abdomen examination ?	3
25	What should be the qualities of an ideal hospital receptionist?	3
	OR	
	A child of 5 years reports of ear pain. What procedure and precautions need to be practised while assisting the patient in examination	
26	What are the vital signs of the human? Mention the optimum range of all parameters of a healthy person. .	3
27	Explain any three medical ethics a GDA must follow as per the Indian Medical Standards .	3
	OR	
	Explain any three professional duties of a GDA while performing the physical examination of Patient.	
28	Describe the essential qualities of a General Duty Assistant.	5
29	Describe the main functions of hospitals under the heads of restorative, preventive and Training and research activities.	5
	OR	
	Describe the different levels of Health Care involving the varied degrees of complexities.	
30	What are the tasks performed by a Medical Receptionist?	5
	OR	
	What are the qualities expected of a Medical Receptionist?	

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION 2022-23**

**Class: XI**

**Maximum Marks: 80**

**Subject: History**

**Time :3 Hours**

- 
- Answer all the questions. Some questions have an internal choice. Marks are indicated against each question. This question paper comprises six sections.
  - Section A: Question numbers 1 to 16 are objective type questions carrying 1 mark and should be answered in one word or one sentence each (**Attempt any 15**).
  - Section B: Question numbers 17 to 19 are Case-Based/Source-Based having Multiple Choice questions carrying 3 marks each.
  - Section C: Answer to questions 20 to 23 carrying 3 marks each should not exceed 100 words each.
  - Section D: Answer to questions 24 to 26 carrying 8 marks each should not exceed 350 words each.
  - Section E: Question number 27 to 29 are Source-based questions carrying 5 marks each.
  - Section F: Question number 30 is a Map question that includes the identification and location of significant test items. Attach the map with the answer book.

**(Section-A)**

1. The technological landmark witnessed by the urban economy of the city of Uruk was 1  
(A) Iron tools (B) Construction of brick columns  
(C) Potter's wheel (D) Oil pressing technique
2. Consider the following statement(s): 1  
I. The sound that a cuneiform sign represented was not a consonant or vowel.  
II. It was written on the piece of papers.  
III. The expert scribes would write it.  
Which of the above given statement(s) is/are correct about Mesopotamian civilization?  
(A) Only I (B) Only II  
(C) Both I and III (D) Only III
3. The Roman emperor who consolidated the rise of provincial upper classes so as to 1  
exclude the senators from military command was  
(A) Augustus (B) Constantine  
(C) Gallienus (D) Tiberius
4. Identify, which of the following is constituted 'the heart of Roman empire'. 1  
(A) Sahara Desert (B) Mediterranean Sea  
(C) Rhine River (D) Agriculture
5. Find out the reason behind the command of Genghis Khan to plunder and destroy 1  
Nishapur?  
(A) Because a Mongol prince was killed.  
(B) Because Nishapur refused to export agricultural produce.  
(C) Because they were developing industries  
(D) None of the above

6. The Knight was given a piece of land by the king called- 1  
(A) Fief (B) Feud  
(C) Friars (D) Taille

7. Free peasants were introduced as 1  
(A) Peasant-cum-soldier (B) Tenants of the Lord.  
(C) Payer of labor-rent in Begar (D) Denied of political rights

8. Fill in the blanks. 1

The Mongols travelled with their herds to pasture lands and lived in tents was called \_\_\_\_\_.

9. There are two statements marked as Assertion (A) and Reason (R). Read the statement and choose the correct option. 1

**Assertion (A):** The Senate hated and feared the army.

**Reason (R):** The empire inherited by Tiberius from Augustus was already so vast that further expansion was felt to be unnecessary.

(A) (A) is Correct, (R) is Incorrect

(B) (A) is Incorrect, (R) is Correct

(C) Both (A) and (R) are Correct but (R) is not the correct explanation of (A)

(D) Both (A) and (R) are Correct and (R) is the correct explanation of (A)

10. Name the place where Enmerkar, sent his messenger out to get precious metal. 1

11. Name the rivers which made boundaries of the Roman empire from the north side. 1

12. State the most trustworthy account of the Mongols. 1

13. Highlight the meaning of the term 'Manor'. 1

14. Mention any two duties of the serfs. 1

15. Identify the given picture 1



(A) St. Michael's Benedictine abbey

(B) Haver Castle, England

(C) Salisbury Cathedral, England

(D) Nemours Castle, France

16. Match the column:-

**Column-I**

- a) The heart of the Roman Empire
- b) The common people of the Roman empire
- c) Transformation of the Roman world
- d) A wine merchant's dining room.

**Column-II**

- i) Late Antiquity
- ii) Pompeii
- iii) The Mediterranean Sea
- iv) Plebeians

Options:-

- (A)- (a) – (iv), (b) – (iii), (c) – (i), (d) – (ii)
- (B)- (a) – (iii), (b) – (iv), (c) – (i), (d) – (ii)
- (C)- (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)
- (D)- (a) – (i), (b) – (iv), (c) – (ii), (d) – (iii)

**(Section-B)**

17. **Read the following extract carefully and answer the following questions by choosing the correct option:** 1+1+1=3

Mesopotamians valued city life in which people of many communities and cultures live side by side. After cities were destroyed in war, they recorded them in poetry. The most ignorant reminder to us of the pride Mesopotamians took in their City come at the end of Gilgamesh Epic, which was written on twelve tablets. Gilgamesh is said to have ruled the city of Uruk sometime after Enmerkar. A great hero who subdued people far and wide, he got a shock when his heroic friend died. He then set out to find the secret of immortality, crossing the water that surrounds the world. After a heroic attempt, Gilgamesh failed and returned to Uruk. There he consoled himself by walking along the city wall, back and forth. He admired the foundation made of fired bricks that he had put into place. It is on the city wall of Uruk that the long tail of heroism and Endeavour fizzles out. Gilgamesh does not say that even though he would die his sons would outlive him, as a tribal hero would have done. He takes consolation in the city that his people had built.

17.1 How did Mesopotamians recall their cities?

- (A) They recall them in their songs
- (B) They recall them in their painting
- (C) They recall them in their poetry
- (D) They recall them in their stories

17.2 Choose the correct option:

**Assertion (A):** He set out to find the secret of immortality.

**Reason (R):** He takes consolation in the city that his people had built.

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

17.3 Consider the following statement:

**Assertion (A):** While moving narratives can be transmitted orally.

**Reason (R):** Because science requires written text that generation of scholar can read and build upon.



**Options:-**

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

18. **Read the following extract carefully and answer the following questions by choosing the correct option:** 1+1+1=3

The famine prevalent for many successive years in many provinces has clearly displayed for men of any understanding the effect of malnutrition in generating illness. The city dwellers, as it was their custom to collect and store enough grain for the whole next year immediately after the harvest, carried off all the wheat, barley, beans and lentils, and left to the peasants, various kind of pulses after taking quite a large proportion of these to the city. After consuming what was left in the course of winter, the country people had to resort to unhealthy food in the spring; they ate twigs and shoots of trees and bushes and bulbs and roots of inedible plants....

18.1) Identify, what does the given passage depict?

- (A) The effects of famine
- (B) Shortage of food
- (C) Wealth
- (D) Both (a) and (b)

18.2) Mention the main activity of the city dwellers?

- (A) The city dwellers harvest the grain for three months
- (B) The city dwellers collected and stored grain for the whole next year.
- (C) The city dwellers collected fresh vegetables.
- (D) The city dwellers collected unhealthy food.

18.3) The people of country side used to have the food in the spring.

- (A) Twigs and shoots of trees
- (B) Bushes and bulbs
- (C) Roots of inedible plants
- (D) All of this.

19. **Read the following extract carefully and answer the following questions by choosing the correct option:** 1+1+1=3

Gaul, a province of the Roman Empire, had two extensive coastlines, mountain ranges, long rivers, forests and large tracts of plains suited to agriculture.

The Franks, a Germanic tribe, gave their name to Gaul, making it 'France'. From the sixth century, this region was a kingdom ruled by Frankish/ French kings, who were Christian. The French had very strong links with the Church, which were further strengthened when in 800 the Pope gave King Charlemagne the title of 'Holy Roman Emperor', to ensure his support. Across a narrow channel lay the island of England-Scotland, which in the eleventh century was conquered by a duke from the French province of Normandy.

19.1) In the above text the term 'Franks' were acquainted as ----- tribe.

- (A) A Portuguese
- (B) A Spanish
- (C) A French
- (D) A German

19.2) Gual was named by the Germanic tribe as:

- (A) France
- (B) Russia
- (C) Germany
- (D) Spain

19.3) king Charlemagne received the title of 'Holy Roman Emperor' from\_\_\_\_\_.

- (A) The Clergy
- (B) Pope
- (C) The Priest
- (D) The Nobles

**(Section-C)**

- |     |  |   |
|-----|--|---|
| 20. | ‘Iraq is a land of diverse environments’ Illustrate.   | 3 |
| 21. | Highlight any three basic features of the reign of the Roman emperor Augustus witness mainly in the field of administratation? | 3 |
| 22. | Describe any three religious policies of Mongols.  | 3 |
| 23. | Discuss any three factors; those were responsible for the decline of feudal system.  | 3 |

**(Section-D)**

- |     |   |   |
|-----|---|---|
| 24. | Trace the development in art of writing for Mesopotamian civilization. Analyze the legacy of Mesopotamian writings. | 8 |
|-----|---|---|

OR

Highlight the system of urbanization in Southern Mesopotamia with special reference of the temples and kings.

- |     |   |   |
|-----|---|---|
| 25. | Illustrate the main features of Roman society with reference to the status of women.            | 8 |
| 26. | Discuss the political changes that took place during 15th / 16th centuries in mediaeval Europe. | 8 |

**(Section-E)**

- |     |   |                |
|-----|---|----------------|
| 27. | <b>Read the passage below and answer the questions that follow:</b> | <b>2+2+1=5</b> |
|-----|---|----------------|

The Republic was the name for a regime in which the reality of power lay with the Senate, a body dominated by a small group of wealthy families who formed the 'nobility'. In practice, the Republic represented the government of the nobility, exercised through the body called the Senate. The Republic lasted from 509 BC to 27 BC, when it was overthrown by Octavian, the adopted son and heir of Julius Caesar, who later changed his name to Augustus. Membership of the Senate was for life and wealth and office holding counted for more than birth.

- (A) Define the word ‘Republic’?
- (B) Republic lasted for how long and how did it come to an end?
- (C) What was the term for a Senate?

28. **Read the following passage and answer the questions that follow:**

2+2+1=5

In 1221, after the conquest of Bukhara, Genghis Khan had assembled the rich Muslim residents at the festival ground and had admonished them. He called them sinners and warned them to compensate for their sins by parting with their hidden wealth. The episode was dramatic enough to be painted and for a long time afterwards people still remembered the incident. In the late sixteenth century, 'Abdullah Khan, a distant descendant of Jochi, Genghis Khan's eldest son, went to the same festival ground in Bukhara. Unlike Genghis Khan, however, 'Abdullah Khan went to perform his holiday prayers there. His chronicler, Hafiz-i Tanish, reported this performance of Muslim piety by his master and included the surprising comment: 'this was according to the Yasa of Genghis Khan'.

- (A) Which area was concurred by Genghis Khan and in which year?
- (B) What was the story behind this episode and why was it remembered?
- (C) Why did Abdullah Khan go the same festival ground in Bukhara?

29. **Read the following passage and answer the following questions.**

2+1+2=5

In towns, instead of services, people paid tax to the lords who owned the land on which the town stood. Towns offered the prospect of paid work and freedom from the lord's control, for young people from peasant families. 'Town Air makes free' was a popular saying. Many serfs craving to be free run away and hid in towns. If a serf could stay for one year and one day without his lord discovering him; he would become a free man. Many people in towns were free peasants or escaped serfs who provided unskilled labour. Shopkeepers and merchants were numerous. Later, there was a need for individuals with specialised skills, like bankers and lawyers. The bigger towns had populations of about 30,000. They could be said to have formed a 'fourth' order.

The basis of economic organization was the guild. Each craft or industry was organized into a guild, an association which controlled the quality of the product, its price and its sale. The 'guild-hall' was a feature of every town; it was a building for ceremonial functions, and where the heads of all the guilds met formally. Guards patrolled the town walls and musicians were called to play at feasts and in civic processions, and innkeepers looked after travelers.

- (a) Identify any two feature of 'guild-hall'?
- (b) What was the population of the big towns?
- (c) State the importance of guilds.

**(Section-F)**

30. 30.1 On the given political outline map of the World map locate and label the following with appropriate symbol:

3+2=5

- a) A temple of Goddess Inanna was constructed there.

OR

A trading town in a pastoral Zone.

- b) Biggest urban center that lined the shores of the Mediterranean.

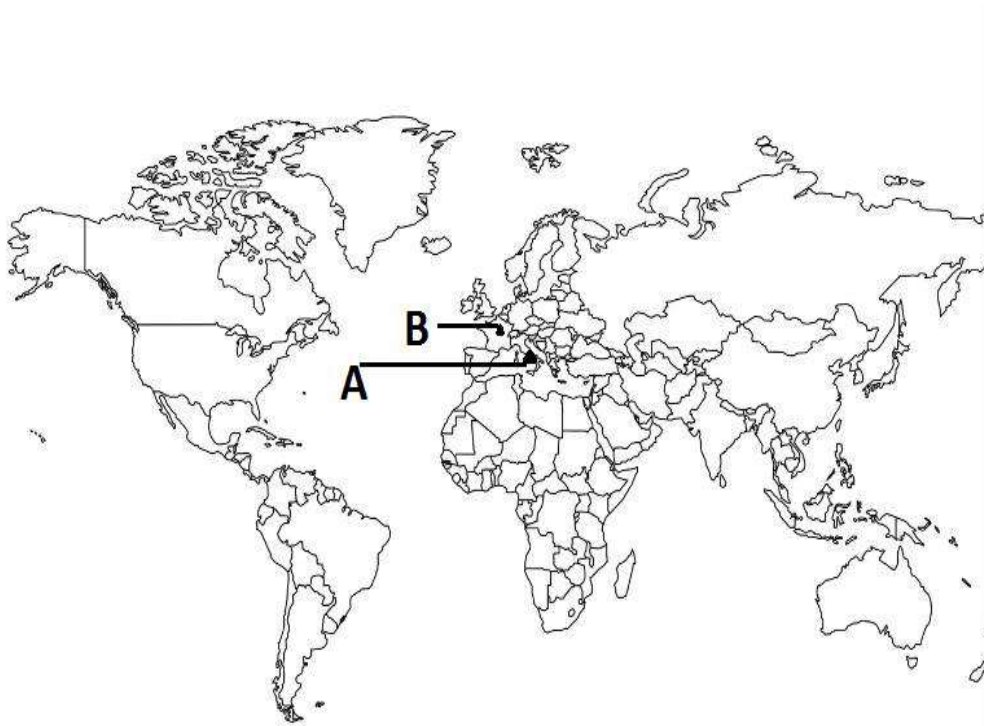
OR

The Roman Empire got the best kind of wine from the city

- c) Established by the Roman ruler Constantine.

30.2 On the given same outline map of the world two places are marked as A & B, identify and write their name of each place and write the answer on the line provided.

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No: \_\_\_\_\_



# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## MID TERM EXAMINATION

SESSION 2022-2023

Class: XI

Subject: Library and Information Science

Maximum Marks: 60

Time: 3 hours

### SECTION – A1 MCQ& ONE WORD ANSWERS (EMPLOYABILITY SKILLS) [ATTEMPT ANY 6]

1×6 =6

How to exchange messages when verbal messages are blocked by noise or distance?

- 1 (A) Biting nails (B) Using hand movements  
(C) Smiling (D) Using expressions

Which of the following doesn't categorize under non-verbal communication?

- 2 (A) Paralanguage (B) Posture  
(C) Gestures (D) Email

Why is grooming so important?

- 3 (A) To feel confident about ourselves (B) To feel superior  
(C) To understand your weakness (D) To look stylish

Which among the following is required for creating a good image of ourselves?

- 4 (A) Exercising regularly (B) Getting a haircut regularly  
(C) Maintaining personal hygiene (D) Washing face at regular intervals

5 Explain MINTS in capitalization while writing sentences

6 Write down any two benefits of teamwork

7 How to build self-motivation?

### SECTION – A2 SHORT QUESTIONS (EMPLOYABILITY SKILLS) [ATTEMPT ANY 2]

2×2 =4

8 What do you mean by a form? Give examples of some fields usually found while filling a form?

9 What is personal hygiene? Explain the importance of personal hygiene

10 State the difference between close ended question and open ended question?

11 Explain the six steps to help build your networking skills

### SECTION – B MCQ&FILL IN THE BLANKS (SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 13]

1×13 =13

Who defined classification as, 'the arranging of things according to likeness and unlikeness'?

- 12 (A) N.C. Berwick Sayers (B) Melville Louis Kossuth Dewey  
(C) Margaret Mann (D) Charles Ami Cutter

Based on the number 700, select the name of the main class as per Dewey decimal classification?

- 13 (A) Science (B) Religion  
(C) Social Science (D) Fine Arts

According to S.R. Ranganathan's Colon Classification, which fundamental category uses colon i.e. [:] as the connecting symbol?

- 14 (A) Matter (B) Personality  
(C) Space (D) Energy

Name the data element which is not required to constitute an area of description for cataloguing a book material

- 15 (A) ISSN Number (B) Year of Publication  
(C) Editor (D) Accession Number

Who is the author of the book "Rules for a Dictionary Catalogue"?

- 16 (A) Melville Louis Kossuth Dewey (B) S.R. Ranganathan  
(C) Margaret Mann (D) Charles Ami Cutter

Which law of Library Science mandates the librarians to know the **Subject, Standard & the language of the book/material to be used** to serve its users better?

- 17 (A) First Law (B) Second Law  
(C) Third Law (D) Fourth Law

Which law of Library Science calls for implication of “Extension Services” to convert a library into a social centre?

- 18 (A) First Law (B) Second Law  
(C) Third Law (D) Fourth Law

Which Law calls for the implications of CAS & SDI

- 19 (A) Third Law (B) Fourth Law  
(C) Second Law (D) Fifth Law

Reader’s Ticket Book Card Charging System was proposed by.

- 20 (A) S.R Ranganathan (B) M. Dewey  
(C) Charles Ami Cutter (D) N.C. Berwick Sayers

When was UNESCO’s Public Library Manifesto formulated?

- 21 (A) 1931 (B) 1952  
(C) 1949 (D) 1993

The former name of ‘National Library of India was

- 22 (A) Imperial Library (B) British Council Library  
(C) Central Library (D) Indian Library

- 23 \_\_\_\_\_ knowledge is the knowledge of an individual which may or may not be expressed or shared while, \_\_\_\_\_ is that which is expressed to others orally, in a recorded form or through any communication channels.

- 24 Based on the contents, a book can be divided into three categories \_\_\_\_\_, \_\_\_\_\_ & \_\_\_\_\_

- 25 The \_\_\_\_\_ library has the prime responsibility of supporting adult education and demolishing illiteracy from the society.

### SECTION – C SHORT QUESTIONS

(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 8]

2×8 =16

- 26 Explain Data, Information, Knowledge & Wisdom.  
27 Elaborate the three components of the ‘Trinity’ with suitable examples  
28 Write a note on Academic libraries and its three types.  
29 Explain the challenges faced by a Digital or Hybrid library.  
30 What is a digital library? Give two examples.  
31 What qualities does a library has which is subjected to growth or deterioration?  
32 Explain the obligation of the state in the second law of library science.  
33 What is a library catalogue? How and from where has the term been derived?  
34 What is the need of a library catalogue?

### SECTION – D LONG QUESTIONS

(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 7]

3×7 =21

- 35 Explain the second law of Library Science and its implications  
36 Explain the fourth law of Library Science and its implications  
37 Explain the five fundamental categories of Colon Classification  
38 Who formulated DDC and when? name the ten main classes as per DDC  
39 Differentiate between Catalogue and Bibliography  
40 Write down the items of information required to catalogue a document (Book Material)  
41 Write down the objectives of a library catalogue as per C.A. Cutter  
42 Explain the APUPA Pattern for arrangement of document as enunciated by Ranganathan

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION 2022-2023**

**Class: XI**

**Maximum Marks: 80**

**Subject: Mathematics**

**Time: 03 Hours**

**General Instructions:**

1. This question paper contains **five** sections and **4 printed pages**.
2. **Section I** comprises of 16 very short type questions.
3. **Sections II** contain **2** case study based questions. Each case study comprises of 5 case based MCQs. An examinee is to attempt any **4 out of 5 MCQs**.
4. **Section –III** comprises of **10** questions of **2 marks** each.
5. **Section- IV** comprises **7** questions of **3 marks** each.
6. **Section -V** comprises of **3** questions of **5 marks** each.
7. **All questions are compulsory** Internal choice is provided in 5 questions of section **I**, **3** questions of **Section- III**, **2** questions of **Section-IV** and **3** questions of **Section-V**. You have to attempt **only one** of the alternatives in all such questions.

**Section-I**

- Q.1** Describe the following set in Roster form  $\{x: x \in Z \text{ and } |x| \leq 2\}$  **1**

OR

If  $A = \{x: x \in R \text{ and satisfy } x^2 - 8x + 12 = 0\}$  and  $B = \{2, 4, 6\}$  then verify that  $A \subset B$  or not.

- Q.2** Let  $A = \{(x, y) : y = e^x, x \in R\}$  and  $B = \{(x, y) : y = e^{-x}, x \in R\}$ . **1**

Is  $A \cap B$  empty? If not find the ordered pair belonging to  $A \cap B$

- Q.3** List all the subsets of the set  $\{-1, 0, 1\}$  **1**

- Q.4** Let  $A = \{1, 3, 5, 7, 9, 11, 13, 15, 17\}$ ,  $B = \{2, 4, 6, 8, \dots, 18\}$  and  $N$  the set of natural numbers be the universal set, then find  $A' \cup ((A \cup B) \cap B')$  **1**

- Q.5** Determine the domain and range of the relation **1**

$R = \{(x, y) : y = |x - 1|, x \in Z \text{ and } |x| \leq 3\}$

- Q.6** Find the domain of the function  $f(x) = \frac{1}{2 - \sin 3x}$  **1**

- Q.7** Let  $A = \{5, 6, 7, 8\}$  and  $B = \{1, 5, 3\}$ . Find the number of non-empty relation from  $A$  to  $B$ . **1**

OR

If  $f(x) = 4x - x^2, x \in R$ , then write the value of  $f(a + 1) - f(a - 1)$ .

- Q.8** Find the value of  $\cos(1755^\circ)$  **1**

- Q.9** A wheel makes 360 revolution in one minute. Through how many radians does it turn in one second? **1**

OR

Find the radius of the circle whose arc of length  $15\pi$  cm makes an angle of  $\frac{3\pi}{4}$  radian at the centre.

- Q.10** What is the value of  $\cot(\frac{-15\pi}{4})$ ? **1**

- Q.11** Find the multiplicative inverse of  $Z = 4 - i3$  **1**

OR

Find the modulus of  $\left| \frac{2-i3}{3-i4} \right|$

- Q.12** Find the value of  $\frac{i^{592} + i^{590} + i^{588} + i^{586} + i^{584}}{i^{582} + i^{580} + i^{578} + i^{576} + i^{574}}$  1
- Q.13** Solve:  $5x - 3 < 3x + 1$  when  $x$  is an integer 1
- Q.14** Solve:  $\frac{2}{x+2} > 0$  1
- Q.15** What is the equation of a line passing through the point (1, 2) and perpendicular to the line  $x + y + 1 = 0$ ? 1
- Q.16** Find the equation of a line which cuts off equal intercepts from the axes and passing through the point (1, -2). 1

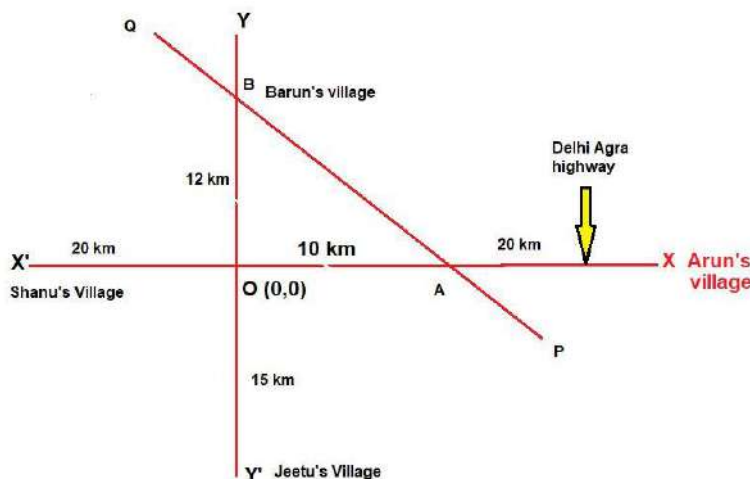
Or

Find the distance between the lines  $l(x + y) + p = 0$  and  $l(x + y) - r = 0$

## Section II

**Both the Case study based questions are compulsory. Attempt any 4 subparts from each question. Each question carries 1 mark**

- Q.17 Case study 1:** Villages of Shanu and Arun's are 50km apart and are situated on Delhi Agra highway as shown in the following picture. Another highway YY' crosses Agra Delhi highway at O(0,0). A small local road PQ crosses both the highways at points A and B such that OA=10 km and OB=12 km. Also, the villages of Barun and Jeetu are on the smaller high way YY'. Barun's village B is 12km from O and that of Jeetu is 15 km from O.



- (i) What are the coordinates of A?  
 (a) (10, 0) (b) (10, 12) (c) (0, 10) (d) (0, 15) 1
- (ii) What is the equation of line AB?  
 (a)  $5x + 6y = 60$  (b)  $6x + 5y = 60$  (c)  $x = 10$  (d)  $y = 12$  1
- (iii) What is the distance of AB from O (0, 0)?  
 (a) 60 km (b)  $\frac{60}{\sqrt{61}}$  km (c)  $\sqrt{61}$  km (d)  $\sqrt{60}$  km. 1
- (iv) What is the slope of line AB?  
 (a)  $\frac{6}{5}$  (b)  $\frac{5}{6}$  (c)  $-\frac{6}{5}$  (d)  $\frac{10}{12}$  1
- (v) What is the length of line AB?  
 (a)  $\sqrt{61}$  km (b) 12 km (c) 10 km (d)  $2\sqrt{61}$  km 1



**Q.18 Case study 2:** Refer to the data below and answer the questions that follow:

In an examination 43% passed in Mathematics, 48% passed in Physics, and 52% passed in Chemistry. Only 8% passed in all the three. 14% passed in Mathematics and Physics, 21% passed in Mathematics and Chemistry and 20% passed in Physics and Chemistry. Total number of students who took the examination is 200. Let P= Physics, M= Mathematics, C= Chemistry  
Read the above passage and answer the following questions:

- |       |  |   |
|-------|--|---|
| (i)   | How many students read Mathematics only?   | 1 |
|       | a)16                      b) 32                      c) 48                      d)80   |   |
| (ii)  | How many students read Physics only?   | 1 |
|       | a)16                      b)22                      c)44                      d)40     |   |
| (iii) | How many students read Chemistry only?   | 1 |
|       | a)38                      b) 19                      c) 24                      d) 36  |   |
| (iv)  | How many students passed in Mathematics, Physics but not in Chemistry?                 | 1 |
|       | a)16                      b) 14                      c)8                      d)12     |   |
| (v)   | How many students passed in exactly two subjects?                                      | 1 |
|       | a) 34                      b) 62                      c) 31                      d) 51 |   |

### Section III

- Q.19** A and B are two sets such that  $n(A-B)= 14+x$ ,  $n(B-A)= 3x$  and  $n(A \cap B)=x$ . Draw Venn diagram to illustrate the information .If  $n(A)= n(B)$  then find  $x$  and  $n(A \cup B)$ . 2

OR

A survey shows that 63% of the people watch a News channel whereas 76% watch another channel. If  $x\%$  of the people watch both the channel, then find the range of  $x$ .

- Q.20** Show that if  $A \subset B$ , then  $C-B \subset C-A$  2
- Q.21** Let  $f=\{(1, 1), (2, 3), (0, -1), (-1,-3)\}$  be a linear function from  $Z \rightarrow Z$ . Find  $f(x)$  2

OR

Let  $f$  be the subset of  $Z \times Z$  defined by  $f= \{(ab, a + b): a, b \in Z\}$ . Is  $f$  a function from  $Z \times Z$ ? Justify your answer.

- Q.22** Evaluate:  $\cos 1^0 + \cos 2^0 + \cos 3^0 + \cos 4^0 + \dots + \cos 180^0$  2
- Q.23** Prove that  $\cos 2x \cos 2y + \cos^2(x + y) - \cos^2(x - y) = \cos(2x + 2y)$  2
- Q.24** Prove that  $\tan 75^\circ - \tan 30^\circ - \tan 75^\circ \tan 30^\circ = 1$  2
- Q.25** If  $\frac{(a+i)^2}{2a-i} = p + iq$  then show that  $p^2 + q^2 = \frac{(a^2+1)^2}{4a^2+1}$  2
- Q.26** Solve:  $-8 \leq 5x - 3 < 7$  . Represent on number line. 2
- Q.27** The perpendicular from the origin to a line meets it at the point  $P(-2,9)$  , find the equation of the line. 2

OR

Find the distance of the line  $4x - y = 0$  from the point  $P(4, 1)$  measured along the line making an angle of  $135^\circ$  with the positive X- axis.

- Q.28** A ray of light passing through the point (1,2) reflects on X-axis at point A and the reflected ray passes through the point (5, 3). Find the coordinates of A. 2

#### Section IV

- Q.29** Find the domain and range of the function  $f(x) = \frac{x^2+x+2}{x^2+x+1}$  3
- Q.30** Find the domain of the function  $f(x) = \sqrt{2 - 2x - x^2}$  3
- Q.31** A relation R defined on set Z of integers as follows: 3  
 $(x, y) \in R : x^2 + y^2 = 25$ . Express R and  $R^{-1}$  in Roster form and find their respective domain.
- Q.32** Prove that  $\frac{\sec 8x - 1}{\sec 4x - 1} = \frac{\tan 8x}{\tan 2x}$  3

OR

Show that:  $\sqrt{2 + \sqrt{2 + \sqrt{2(1 + \cos 8\theta)}}} = 2\cos \theta, 0 < \theta < \frac{\pi}{8}$ .

- Q.33** Prove that:  $\sin 10^\circ \sin 30^\circ \sin 50^\circ \sin 70^\circ = \frac{1}{16}$ . 3
- Q.34** If  $\alpha$  and  $\beta$  are different complex numbers with  $|\beta| = 1$ , then find  $\left| \frac{\beta - \alpha}{1 - \alpha\beta} \right|$  3

OR

Reduce  $\left( \frac{1}{1-i4} - \frac{2}{1+i} \right) \left( \frac{3-i4}{5+i} \right)$  in the standard form.

- Q.35** Solve the following system of in equations and also represent on number line. 3  
 $\frac{5x}{4} + \frac{3x}{8} > \frac{39}{8}$  and  $\frac{2x-1}{12} - \frac{x-11}{3} < \frac{3x+1}{4}$

#### Section V

- Q.36** (i) Using properties of set prove that  $A - (A \cap B) = A - B$  5  
(3+2)  
 (ii) Let  $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ ,  $A = \{1, 2, 3, 4\}$ ,  $B = \{2, 4, 6, 8\}$  and  $C = \{3, 4, 5, 6\}$ , Find (a)  $A^c$  (b)  $(A \cap C)^c$  (c)  $A \cup B$  (d)  $B - C$

OR

- (i) Let A and B are two sets. If  $(A \cap X) = (B \cap X) = \emptyset$ ,  
 $(A \cup X) = (B \cup X)$  for some set X, show that  $A=B$
- (ii) Prove that for any two sets A and B,  $(A \cup B)^c = A^c \cap B^c$
- Q.37** If  $x = -5 + 2\sqrt{-4}$ , find the value of  $x^4 + 9x^3 + 35x^2 - x + 4$  5

OR

If  $Z = x + iy$  and  $W = \frac{1-iZ}{Z-i}$ , show that  $|W| = 1 \Rightarrow Z$  is purely real

- Q.38** Find the image of the point (3, 8) w.r.t. the line  $x + 3y = 7$  assuming the line to be a plane mirror. 5

OR

Find the equation of the line which is equidistant from the parallel lines  $9x + 6y - 7 = 0$  and  $3x + 2y + 6 = 0$

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022-2023**

**Class: XI**

**Subject: Painting**

**Maximum Marks: 30**

**Time: 2 Hours**

**General Instructions:**

1. The question paper contains **Four Sections: A, B, C and D.**
2. All the **four** Sections are **compulsory**, which carry marks as indicated against each Section.

**SECTION -A**

**Instruction:** Write answers for all the eight parts of the question by selecting the correct one from the given options. **8x1=8**

1. i) Rock art of Bhimbetka is classified into how many groups? **1**
  - a) Three
  - b) Six
  - c) Seven
  - d) Five
- ii) Which of the following is not the archaeological site related to prehistoric period? **1**
  - a) Piklihal
  - b) Lakhudiyar
  - c) Bhimbetka
  - d) Balathal
- iii) Which group of the archaeological sites matched appropriately with their states: **1**
  - a) Lothal and Rangpur
  - b) Banawali and Ropar
  - c) Kalibangan and Alamgirpur
  - d) Rakhigarhi and Dholavira
- iv) Which artefact of your course of study has not been discovered from Mohen-jo-daro sites- **1**
  - a) Dancing Girl
  - b) Male Torso
  - c) Unicorn Bull
  - d) Painted Earthenware
- v) The sculpture of Seated Buddha included in your course of study belongs to which period **1**
  - a) Gupta Period
  - b) Kushan Period
  - c) Mauryan Period
  - d) Shunga Period
- vi) The sculpture Jain Tirthankara of Gupta Period included in your course of study is sitting in which mudra? **1**
  - a) Abhay Mudra
  - b) Dhyan and Bhumi-sparshan Mudra
  - c) Padamasana and Dhyan Mudra
  - d) Dhamma Chakra Pravartana Mudra

- vii) Cave no. 26 of Ajanta Caves is very big and the entire interior hall is carved with a variety of Buddha images. Identify the biggest image of this cave 1
- Padmapani Boddhisattva
  - Mara Vijay
  - Mahaparinirvana
  - Boddhisattva Vajrapani
- viii) The Ajanta Caves had been constructed during- 1
- 2<sup>nd</sup> Century A.D. to 5<sup>th</sup> Century A.D.
  - 2<sup>rd</sup> Century B.C. to 5<sup>th</sup> Century A.D.
  - 3<sup>rd</sup> Century B.C. to 4<sup>St</sup> Century A.D.
  - 3<sup>rd</sup> Century A.D. to 6<sup>th</sup> Century A.D.

#### SECTION-B

**Instruction:** Write answers for each of the following questions 4x2=8

- Mention the names of various rock shelters of Prehistoric period found in India. Also write the names of four archaeologists who discovered these sites. 2
- Explain the location of the various important sites of Indus Valley civilization. Also write the names of four artefacts found of this period which is included in your course of study. 2
- What is the difference between Gandhar School of Art and Mathura School of Art? 2
- Chauri Bearer (Yakshini) is a famous sculpture of Mauryan Period. Mention three characteristics of this statue. 2

#### SECTION -C

**Instruction:** Write the answers for each of the following questions 2x3=6

- Explain the compositional arrangement of the rock-painting 'Wizard's Dance' of Bhimbetka. 3
- Describe the characteristics of famous sculpture Seated Buddha-Katra Mount, Mathura Style. 3

#### SECTION -D

**Instruction:** Write answers for each of the following questions. 2x4=8

- The artists of Indus Valley Civilization had a fine artistic sensibility and wide imaginative skill. Evaluate the artistic achievements of any two artworks of this period, included in your course of study. 4
- Where is Ajanta located? Write any six features of Ajanta painting. 4

OR

What do you know about Sarnath Lion Capital, give details of it? Also describe the five components of this Capital.

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# D.A.V. INSTITUTIONS, WEST BENGAL ZONE

## MID TERM EXAMINATION

SESSION: 2022 – 2023

CLASS: XI

MAXIMUM MARKS: 70

SUBJECT: PHYSICAL EDUCATION

TIME: 3 Hours

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### General Instructions:

1. There are four sections in the Question paper namely Section A, Section B, Section C and Section D.
2. There are **30** questions in all and contains **04** printed pages.
3. **Section A** consists of 12 MCQs questions carries 1 mark each.
4. **Section B** consists of 4 questions carries 2 marks each and should have 20 - 30 words.
5. **Section C** consists of 10 questions each carries 3 mark and should have 80 - 100 words.
6. **Section D** consists of 4 questions each question carries 5 marks and should have 150 - 180 words

### SECTION – A

- 1 In what ways does effective coaching helps students? 1
- A. Development of skills and performance improvement
  - B. Development of personality and performance improvement
  - C. Development of mental peace and security
  - D. Development of physique and agility improvement

**OR**

Which of the following career options is associated with Physical Education?

- A. Sports Marketing
  - B. Sports Administration
  - C. Professional Sportsperson
  - D. All of these
2. When was the first modern Olympics held? 1
- A. 1982
  - B. 1882
  - C. 1896
  - D. 1892
3. The five rings in Olympic flag stand for \_\_\_\_\_. 1
- A. Religion
  - B. Number of events
  - C. Continents
  - D. All of these

**OR**

Under khelo - India, the rupees 5 lakhs scholarship for talented players is for how many years?

- A. Six
- B. Eight
- C. Four
- D. Five

4. IOC headquarter is in \_\_\_\_\_. 1  
A. The USA  
B. Greece  
C. France  
D. Switzerland
5. Khelo India programme does not include: 1  
A. Badminton  
B. Cricket  
C. Gymnastics  
D. Hockey
6. The numbers of yogic kriyas are .... 1  
A. Four  
B. Five  
C. Six  
D. Three
7. The last stage of yoga is ..... 1  
A. Yama  
B. Dhayana  
C. Samadhi  
D. Niyama

**OR**

Which of the following is not a part of yama?

- A. Sataya  
B. Aprigrah  
C. Asteya  
D. Santosh
8. Adaptive physical education aims to ..... 1  
A. Promote physical fitness  
B. Enhance social adjustments  
C. Develop motor skills  
D. All of these
9. Disability is developed by: 1  
A. Genetic  
B. Balance diet  
C. Injury  
D. A & C Both
10. Integration of eye, hand and foot movements is called ..... 1  
A. Speed  
B. Balance  
C. Agility  
D. Coordination
11. Time taken to start a movement once the senses signal the need to move is called ... 1  
A. Reaction time  
B. Speed  
C. Agility  
D. Coordination

12. **Assertion (A):** The International Olympic Movement, headquartered in Paris, is responsible for Organizing the Games; it is responsible for the venue as well as event selection. Many new events have been added since the first Modern Olympics and today there are 339 events in 33 sports (50 disciplines), Five new sports were added in the 2020 Olympics held in Tokyo. 1

**Reason (R):** Paris was chosen as the headquarters of the IOC as it is the centre-most point of Europe. Also, new events are added depending on sponsor financing and needs of the host Country In 2021, Japan insisted on adding cricket.

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

- A. Both A and R are correct, and R is the correct explanation of A.
- B. Both A and R are correct, but R is not the correct explanation of A.
- C. A is correct but R is incorrect.
- D. Both A and R are incorrect.

#### SECTION – B

13. Mention the colour of the following rings as per Olympic Symbol. 2



- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

14. What is the Olympic motto and what does it stand for? 2
15. What do you mean by Olympic Anthem? 2
16. Define physical fitness. 2

**OR**

What is lifestyle composed of?

#### SECTION - C

17. **Case study based questions:-** 3

The Sports Minister was invited to be the chief guest at the school Annual Sports Day function. In his speech, he spoke about how the Government of India was encouraging sportspersons to develop skills and improve performance at all levels. Talking about Khelo-India, he said that the government had started this programme to train and support people interested in physical education.

Answer the following questions related to the programme.

- (a) Why was Khelo India started?
- (b) What are the scholarship opportunities offered under this programme?
- (c) What sports are encouraged and assisted in schools under Khelo India?

18. Discuss the coaching career in physical education. 3
19. Enumerate the objectives of Physical Education and discuss any two. 3

**OR**

What do you mean by Olympic values?

20. Discuss the national Olympic committee along with its functions. 3



21. Discuss the teaching career in physical education. 3
- OR**
- Enlist the elements of Yoga and explain any one.
22. Write in brief about different wearable Sports gears. 3
23. Who started the Modern Olympics? What was his aim behind it? 3
24. What are the objectives of adaptive physical education? 3
25. Discuss in brief, health related components of fitness. 3
26. Briefly explain the importance of wellness? 3

**OR**

Briefly explain the role of occupational therapist.

**SECTION - D**

27. Discuss the role of special educator. 5
28. Explain the origin of ancient Olympic games? 5

**OR**

Enumerate the main functions of IOC.

29. What do you mean by Yoga? Explain its importance in daily life. 5

**OR**

Explain the types of Yogic Kriyas.

30. Enlist the Components of Physical Fitness and explain them. 5

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**D. A. V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022 – 2023**

**Class: XI**  
**Subject: Physics**

**Maximum Marks: 70**  
**Time: 3 Hours**

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**General Instructions:**

- (i) All questions are compulsory. There are 32 questions in all.
- (ii) This question paper contains 6 printed pages.
- (iii) This question paper comprises five sections: **A, B, C, D** and **E**.
- (iv) **Section A**- Questions no. 1 to 14 are of 1 mark each.
- (v) **Section B** – Questions no. 15 to 20 are of 2 marks each.
- (vi) **Section C**- Questions no. 21 to 28 are of 3 marks each.
- (vii) **Section D** – Questions no. 29 and 30 are of 5 marks each.
- (viii) **Section E** – Questions no. 31 and 32 are Case Study –Based questions of 5 marks each.
- (ix) There is no overall choice in the question paper. However, internal choice has been provided in some of the questions. Attempt any one of the alternatives in such questions.

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**SECTION – A**

*Choose the correct option( Q no 1-6):*

1. If force (F), velocity (V) and time (T) are taken as fundamental units, then the dimensions of mass are- 1  
(A)  $[FVT^{-1}]$  (B)  $[FVT^{-2}]$   
(C)  $[FV^{-1}T^{-1}]$  (D)  $[FV^{-1}T]$
2. What are the dimensions of (A/B) in the relation  $F = A\sqrt{x} + Bt^2$ , where F is force,  $x$  is the distance and  $t$  is time? 1  
(A)  $[ML^2T^{-2}]$  (B)  $[L^{-1/2} T^{-1}]$   
(C)  $[L^{-1/2}T^2]$  (D)  $[L T^{-2}]$
3. A student when discussing the properties of a medium (except vacuum) writes, Velocity of light in vacuum = Velocity of light in medium. This formula is – 1  
(A) Dimensionally correct  
(B) Dimensionally incorrect  
(C) Numerically correct  
(D) Both (a) and (c)
4. A body is projected upwards with a velocity  $u$ . It passes through a certain point above the ground after  $t_1$  sec. The time after which the body passes through the same point during the return journey is – 1  
(A)  $\left(\frac{u}{g} - t_1^2\right)$   
(B)  $2\left(\frac{u}{g} - t_1\right)$   
(C)  $3\left(\frac{u^2}{g} - t_1\right)$   
(D)  $3\left(\frac{u^2}{g^2} - t_1\right)$
5. If a unit vector is represented by  $(0.5\hat{i} - 0.8\hat{j} + c\hat{k})$ , then value of  $c$  is 1  
(A)  $\sqrt{0.01}$  (B)  $\sqrt{0.11}$   
(C) 1 (D)  $\sqrt{0.39}$

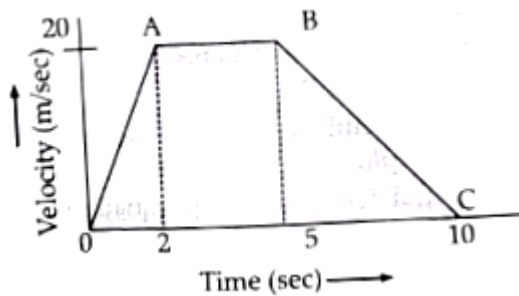
6. A block of mass  $M$  is pulled along a horizontal frictionless surface by a rope of mass  $m$ . If a force  $P$  is applied at the free end of the rope, the force exerted by the rope on the block is 1
- (A)  $\frac{Pm}{m+M}$  (B)  $P$   
 (C)  $\frac{Pm}{M-m}$  (D)  $\frac{PM}{M+m}$

*Note:* For question numbers 7, 8, 9 and 10, two statements are given- one labelled as **Assertion (A)** and the other labelled as **Reason (R)**. Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

- (A) Both A and R are true and R is the correct explanation of A.  
 (B) Both A and R are true but R is not the correct explanation of A.  
 (C) A is true but R is false.  
 (D) A is false and R is also false.
7. **Assertion (A):** Centripetal force is always required for motion in curved path. 1  
**Reason (R):** On banked curved track, vertical component of normal reactions provides the necessary centripetal force.
8. **Assertion (A):** When we change the unit of measurement of a quantity, its numerical value changes. 1  
**Reason (R):** Smaller the unit of measurement, smaller is its numerical value.
9. **Assertion (A):** - A body can have acceleration even if its velocity is zero at a given instant of time. 1  
**Reason (R):** A body is momentarily at rest when it reverses its direction of motion.
10. **Assertion (A):** Dimensions of pressure are  $[ML^{-1}T^{-2}]$  1  
**Reason (R):** Pressure is defined as force per unit area.
11. **Note:** Answer the following:  
 If the displacement-time graphs for a particle is perpendicular to the time axis, what will be the velocity of the particle? 1
12. What is the angle made by vector  $\vec{A} = 2\hat{i} + 2\hat{j}$  with x- axis? 1
13. A body of mass 50 g is moving with a constant velocity of 10 m/s on a horizontal frictionless surface in vacuum. What is the force acting on the body? 1
14. What happens to the coefficient of friction when weight of body is doubled? 1

### SECTION- B

15. The radius of sphere is 1.41 cm. Express the volume in appropriate number of significant figures. 2
16. The acceleration of a particle starting from rest, varies with time according to the relation  $a = -\omega^2 \sin \omega t$ . What will be the displacement of particle at time  $t$ ? 2
17. The velocity-time graph of an object moving along a straight line is as shown below: - 2



- Calculate the distance covered by the object between (i)  $t=0$  to  $t=5$  sec  
(ii)  $t=0$  to  $t=10$  sec.

**OR**

Derive the equation of motion  $S = ut + \frac{1}{2}at^2$  (where symbols have useful meaning) with the help of calculus.

18. Find the unit vector parallel to the resultant of vectors  $\vec{A} = \hat{i} + 4\hat{j} - 2\hat{k}$  and  $\vec{B} = 3\hat{i} - 5\hat{j} + \hat{k}$  2
19. The displacement of the particle of mass  $m$  is described by  $y = K_1 t + K_2 t^2$ , where  $t$  is time and  $K_1$  and  $K_2$  are constants. Find the force acting on the particle.

**OR**

A particle of mass 0.3 kg is subjected to the force  $F = -kx$  with  $k = 15\text{N/m}$ . What will be the initial acceleration if it is released from a point 20 cm away from origin?

20. A marble block of mass 2 kg lying on ice when given a velocity of 6m/s is stopped by a friction in 10 sec. Find the coefficient of friction. 2

### SECTION-C

21. A gas bubble, from an explosion under water, oscillates with a period  $T$  proportional to  $p^a d^b E^c$ , where  $p$  is the static pressure,  $d$  is the density of water and  $E$  is the total energy of the explosion. Find the values of  $a$ ,  $b$  and  $c$ . 3

**OR**

The velocity  $v$  of water waves depends on the wavelength ' $\lambda$ ' density of water ' $\rho$ ' and the acceleration due gravity ' $g$ '. Deduce by the method of dimensions the relationship between these quantities.

22. Calculate the dimensions of linear momentum and surface tension in terms of velocity ( $v$ ), density ( $\rho$ ) and frequency ( $\nu$ ) as fundamental units. 3
23. If  $\alpha = \frac{FV^2}{\beta^2} \log_e \left( \frac{2\pi\beta}{V^2} \right)$ ; where  $F$ = force,  $V$  = velocity. Then, find the dimensions of  $\alpha$  and  $\beta$ . 3
24. A particle starts from rest and moves a distance  $S_1$  with constant acceleration in time  $t$ . If this particle travels distance  $S_2$  in next time  $t$ , then show that  $S_2 = 3 S_1$ .

**OR**

A stone falls from a cliff and travels 24.5 m in the last second before it reaches the ground at the foot of the cliff. Find the height of cliff. ( $g=9.8 \text{ m/s}^2$ )

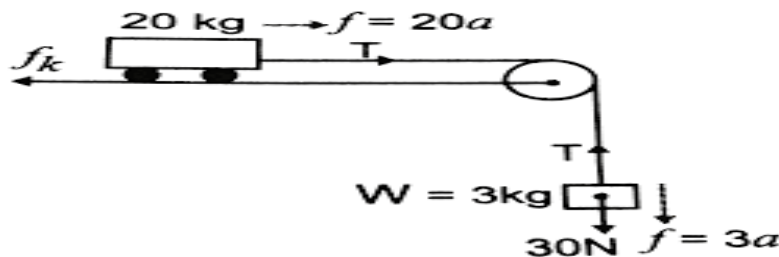
25. Find a vector whose magnitude is 7 and which is perpendicular to each of the vectors  $\vec{A} = 2\hat{i} - 3\hat{j} + 6\hat{k}$  and  $\vec{B} = \hat{i} + \hat{j} - \hat{k}$  3

26. A uniform rope of length  $L$ , resting on a frictionless horizontal surface is pulled at one end by a force  $F$ . What is the tension in the rope at a distance  $l$  from the end where the force is applied? 3

**OR**

Two masses 8 kg and 12 kg are connected at the two ends of a light inextensible string that goes over a frictionless pulley. Find the acceleration of the masses and the tension in the string when the masses are released.

27. Explain why: - 3
- (a) It is easier to pull a lawn mower than to push it.
  - (b) A cricketer moves his hands backwards while holding a catch.
28. What will be the acceleration of the block and trolley system as shown in figure given below, If the coefficient of kinetic friction between the trolley and surface is 0.04? What is the tension in the string? ( $g=10 \text{ m/s}^2$ . Neglect the mass of the string. 3



### SECTION-D

29. (a) A projectile is thrown upward at an angle  $\theta$  with the horizontal, with an initial velocity  $u$ . Obtain the equation of its trajectory and state its nature. 5
- (b) A body 'A' of mass  $m$  is thrown with a velocity  $v$  at an angle of  $30^\circ$  to the horizontal and another body 'B' of the same mass is thrown with velocity  $v$  at an angle of  $60^\circ$  to the horizontal, find the ratio of the horizontal range and maximum height of 'A' and 'B'.

**OR**

(a) Derive an expression for the centripetal acceleration of a body moving with uniform speed  $v$  along a circular path of radius  $r$ .

(b) An insect trapped in a circular groove of radius 12 cm moves along the groove steadily and complete seven revolutions in 100 sec. What will be the angular speed and linear speed of the motion?

30. (a) How does the force of limiting friction vary with: 5
- (i) Surface area of contact,
  - (ii) Normal reaction?
- (b) A block of mass  $m$  is placed on a rough inclined plane which makes an angle  $\theta$  with the horizontal. A force  $F$  is exerted on the block upwards along the surface of the inclined plane which causes the block to accelerate in the direction of  $F$ . Draw a diagram showing all the relevant forces acting on the block. Taking  $\mu$  as the relevant coefficient of friction, obtain an expression for the acceleration of the block.

**OR**

A circular track, of radius  $R$  is banked at an angle  $\theta$ . A vehicle negotiates this track while moving at speed  $v$ .

- (a) Draw a diagram showing all the forces acting on the vehicle.

- (b) Derive an expression for the maximum (safe) speed the vehicle can have on this track. Take  $\mu$  as the relevant coefficient of friction.
- (c) With what speed should the vehicle negotiate the track to minimise the wear and tear of its tyres?

### SECTION-E

31. The physical quantities which have both magnitude as well as direction are known as vector quantities. The vectors may be equal, negative, collinear, coplanar, unit vector or orthogonal vectors. The vectors which act in different directions can be added either by triangle law or parallelogram law or by polygon law of vectors. Whereas the product of vectors can be dot product or the cross product. The resultant vector in scalar product of two vectors is always scalar, on the other hand vector product of two vectors is always vector quantity. The resultant vector when two vectors act in different direction is given by

$R = \sqrt{A^2 + B^2 + 2AB\cos\theta}$ . Here A and B are two vectors and  $\theta$  is angle between vectors.

The scalar product of two vectors A and B is  $\vec{A} \cdot \vec{B} = AB \cos \theta$  and vector product of two vectors A and B is  $\vec{A} \times \vec{B} = AB \sin \theta \hat{n}$

Answer the following questions:

- (i) Angle between a vector and its negative vector is
 

(A) $0^\circ$	(B) $180^\circ$
(C) $90^\circ$	(D) $260^\circ$
  - (ii) If  $\vec{A} = n\hat{i} - \hat{j} + 2\hat{k}$  and  $\vec{B} = 2\hat{i} + 2\hat{j} - \hat{k}$  are perpendicular to each other then the value of n is
 

(A) 1	(B) 3
(C) 2	(D) 4
  - (iii) If  $\vec{A} \times \vec{B} = 0$  then
 

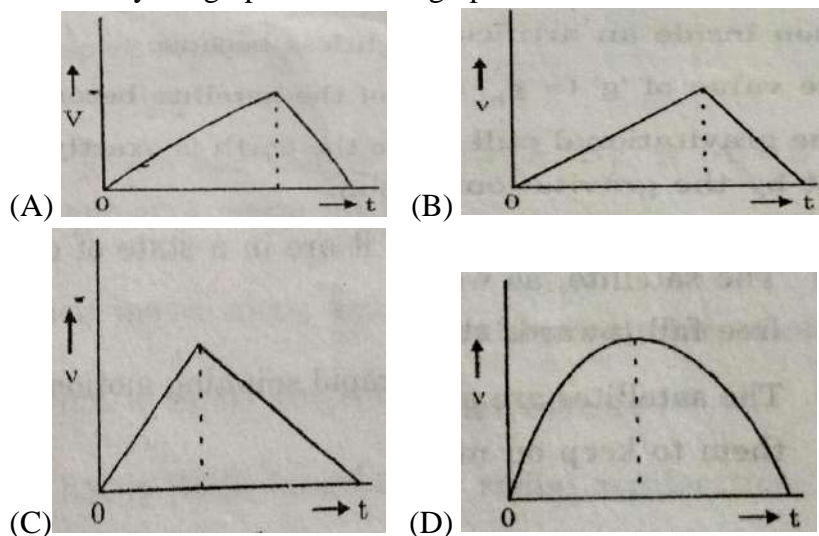
(A) $\vec{A}$ is perpendicular to $\vec{B}$	(B) $\vec{A}$ is parallel to $\vec{B}$
(C) $\vec{A}$ is equal to $\vec{B}$	(D) Angle between $\vec{A}$ and $\vec{B}$ can not be predicted.
  - (iv) If  $\vec{A} \cdot \vec{B} = |\vec{A} \times \vec{B}|$  then angle between  $\vec{A}$  and  $\vec{B}$  is
 

(A) $90^\circ$	(B) $60^\circ$
(C) $45^\circ$	(D) $30^\circ$
  - (v) If the magnitude of sum of two vectors is equal to magnitude of difference of two vectors, the angle between vectors is
 

(A) $0^\circ$	(B) $180^\circ$
(C) $45^\circ$	(D) $90^\circ$
32. A given ascending lift, starting from rest, initially moves with a constant upward acceleration (say, a) for a part of its journey. Thereafter, it retards uniformly (with a deceleration, 2a, say) over the remaining part of its journey and again comes to rest, taking a total time, say T, for the whole journey. The motion of the lift is a good example of rectilinear motion. Most of us have had the experience of travelling in a lift.



- (i) If 'a' is acceleration for the first part and '2a' is the deceleration for the second part of motion, the change in acceleration at the instant where the first part of the motion of the lift ends is :
- (A)  $-a$  (B)  $-2a$   
 (C)  $-3a$  (D)  $a$
- (ii) The overall motion of the ascending lift is an example of :
- (A) Uniform motion  
 (B) uniformly accelerated motion  
 (C) Non-uniformly accelerated motion  
 (D) Motion under gravity.
- (iii) If the acceleration during the first part of the journey is 'a' and deceleration for the second part is '2a', the ratio of the heights covered in the first part to that in the second part of the journey, is:
- (A) 1:1 (B) 1:2  
 (C) 1:3 (D) 2:1
- (iv) When the lift is ascending up with an acceleration 'a' the apparent weight of a person of mass m, in the lift, will be:
- (A)  $m(a + g)$  (B)  $m(a - g)$   
 (C)  $mg$  (D) zero.
- (v) The velocity time graph for the complete upward motion of the lift is best represented by the graph labelled as graph:



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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022 – 2023**

**Class: XI**

**Subject: Psychology**

**Maximum Marks: 70**

**Time: 3 Hours**

**General Instructions:**

1. All questions are compulsory.
2. Marks for each question are indicated against it.
3. Answers should be brief and to the point.
4. SECTION – A has 15 Learning Checks carrying one mark each. You are required to answer them as directed.
5. Questions 16 to 20 in SECTION – B are case study based questions carrying one mark each.
6. Questions 21 to 25 in SECTION – C are Very Short Answer type questions carrying 2 marks each. Answer to each question should not exceed 40 words.
7. Questions 26 to 29 in SECTION–D are Short Answer Type I questions carrying 3 marks each. Answer to each question should not exceed 80 words.
8. Questions 30 to 33 in SECTION– E are Short Answer Type II questions carrying 4 marks each. Answer to each question should not exceed 120 words.
9. Questions 34 and 35 in SECTION–F are Long Answer Type questions carrying 6 marks each. Answer to each question should not exceed 200 words.

**SECTION-A**

1. The first psychological laboratory in Cambridge was set up by 1  
a. Sigmund Freud                      b. William James                      c. Ivan Pavlov                      d. Wilhelm Wundt
2. After identification of the problem, the researcher proceeds by developing a tentative answer of the problem which is called 1  
a. data              b. null hypothesis                      c. scientific inquiry                      d. hypothesis
3. When the US precedes the onset of the CS, it is called 1  
a. backward conditioning                      b. delayed conditioning  
c. simultaneous conditioning                      d. trace conditioning.
4. The name of a psychologist who believed in the Humanistic approach is 1  
a. Carl Rogers              b. John Watson                      c. John Dewey                      d. B.F. Skinner
5. Around 1910, \_\_\_\_\_ had rejected the ideas of mind and consciousness as subject matters of psychology. 1  
a. Anna Freud              b. John Watson                      c. Sperry                      d. Albert Bandura
6. \_\_\_\_\_ views human beings as actively constructing their minds through their exploration into the physical and the social world. 1  
a. Functionalism                      b. Constructivism  
c. Behaviorism                      d. Gestalt Psychology
7. The variable which is manipulated or altered by the researcher is called 1  
a. independent variable                      b. dependent variable  
c. extraneous variable                      d. situational variable
8. The process by which the solution to a problem suddenly becomes clear is called 1  
a. latent learning                      b. insight learning  
c. cognitive map                      d. social learning



9. Two statements are given in the question below as Assertion (A) and Reasoning (R). Read the statements and choose the appropriate option. 1
- Assertion (A):** Cognition is a higher-level mental process
- Reason (R):** It involves thinking, understanding, reasoning, perceiving, memorizing and problem solving and also a host of other mental processes by which our knowledge of the world develops.
- a. Both A and R are true, and R is the correct explanation of A.
  - b. Both A and R are true, but R is not the correct explanation of A.
  - c. A is true, but R is false.
  - d. A is false, but R is true.
  - e. Both A and R are false.
10. The test that assesses the underlying ability of the individuals by allowing them sufficient time is called 1
- a. speed test
  - b. power test
  - c. performance test
  - d. nonverbal test
11. In the early 20<sup>th</sup> century \_\_\_\_\_ has emerged in Germany as a reaction to structuralism. 1
- a. Functionalism
  - b. Behaviorism
  - c. Humanistic approach
  - d. Gestalt Psychology
12. The unconditioned stimuli that automatically elicits approach responses like drinking etc is called 1
- a. appetitive stimuli
  - b. external stimuli
  - c. intrinsic stimuli
  - d. aversive stimuli
13. Two statements are given in the question below as Assertion (A) and Reasoning (R). Read the statements and choose the appropriate option. 1
- Assertion (A):** The correlation coefficient varies between +1.0 through 0 to -1.0.
- Reason (R):** The value of correlation coefficient can be both positive or negative.
- a. Both A and R are true and R is the correct explanation of A.
  - b. Both A and R are true, but R is not the correct explanation of A.
  - c. A is true, but R is false.
  - d. A is false, but R is true.
  - e. Both A and R are false.
14. The learning in which a new behavior is learned but not demonstrated until reinforcement is provided for displaying it is known as 1
- a. modeling
  - b. concept learning
  - c. latent learning
  - d. insight learning
15. Two statements are given in the question below as Assertion (A) and Reasoning (R). Read the statements and choose the appropriate option. 1
- Assertion (A):** Ranu was praised for her good academic performance which has motivated her to study harder for her final examinations.
- Reason (R):** Positive reinforcers do not strengthen and maintain the response that has caused them to occur.
- a. Both A and R are true, and R is the correct explanation of A.
  - b. Both A and R are true, but R is not the correct explanation of A.
  - c. A is true, but R is false.

- d. A is false, but R is true.
- e. Both A and R are false.

### SECTION-B

**Read the passage and answer the following questions:**

In the second phase of the experiment, the dog was kept hungry and placed in harness with one end of the tube ending in the jaw and the other end in the glass jar. A bell was sounded and immediately thereafter food (meat powder) was served to the dog. The dog was allowed to eat it. For the next few days, every time the meat powder was presented, it was preceded by the sound of a bell. After a number of such trials, a test trial was introduced in which everything was the same as the previous trials except that no food followed the sounding of the bell. The dog still salivated to the sound of the bell, expecting presentation of the meat powder as the sound of bell had come to be connected with it. This association between the bell and food resulted in acquisition of a new response by the dog, i.e. salivation to the sound of the bell. This has been termed as conditioning.

16. The unconditioned stimulus referred here is 1  
 a. salivation                      b. sound of bell                      c. food                      d. harness
17. The sound of the bell referred here is 1  
 a. conditioned stimulus   b. appetitive stimulus   c. unconditioned stimulus   d. natural stimulus
18. The dog had salivated to the sound of the bell even when no food was provided due to process of 1  
 a. transfer of learning      b. conditioning              c. skill learning      d. motivational learning
19. The pioneer of classical conditioning is 1  
 a. James Watson          b. Ivan Pavlov              c. Kohler                  d. Wertheimer
20. Salivation to the sound of the bell is referred as 1  
 a. unconditioned response                      b. conditioned response  
 c. biological response                      d. natural response

### SECTION-C

21. How is psychology considered as a social science? (2)

OR

What is behavior? Give examples of overt and covert behaviour. (1+1)

22. Differentiate between naturalistic and controlled observation. (2)
23. What do you mean by Developmental Psychology (2)
24. What has Kurt Lewin proposed? What does it suggest? (1+1)
25. Define unstructured interview. (2)

OR

Explain any two limitations of psychological enquiry. (2)

### SECTION- D

26. What is introspection method? Write down one disadvantage of introspection method. (2+1)
27. Explain any three types of psychological data. (3)

OR

How does a scientific observation differ from day-to-day observation? (3)

28. What is a field experiment? Give one example of field experiment. (1+2)

OR

Write down any three goals of psychological enquiry. (3)

29. Write down two examples of classical conditioning. (3)

#### SECTION-E

30. What is Neuropsychology? Write down 2 major differences between clinical and counseling psychology. (2+2)

31. Write down any four themes of research and applications in psychology. (4)

32. Discuss the characteristics of a psychological test. (4)

OR

Explain Case Study method .Write down any two applications of case study method. (2+2)

33. Discuss the applications of Observational Learning. (4)

OR

Describe four symptoms of Learning Disability (4)

#### SECTION -F

34. Explain the three major types of relevant variables with examples. (3+3)

Describe any three control techniques to control relevant variables.

OR

What is interview method? Explain the combinations of participants in an interview situation. (2+2+2)  
Write down any two advantages of this method.

35. Explain the methods used in verbal learning. (6)

OR

Write down the types of reinforcements used in operant conditioning with suitable examples. (6)

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION: 2022 – 2023**

**Class: XI**

**Maximum Marks: 80**

**Subject: SOCIOLOGY**

**Time: 3 Hours**

**General Instructions:**

1. The paper has 35 questions.
2. All questions are compulsory.
3. Section A- Question number 1 to 16 are one-mark questions.
4. Section B- Question number 17 to 25 are two-marks questions. These are very short answer type questions. The answer to these questions should not exceed 30 words.
5. Section C- Question number 26-32 are four-marks questions. These are short answer type questions. The answer to these questions should not exceed 80 words. Question number 26-28 are source/passage based questions. Read the source/ passage carefully and answer the question that follow .
6. Section D- Question number 33-35 are six-marks question. These are long answer type questions. The answer to these questions should not exceed 200 words.

**SECTION A**

- |   |   |   |
|---|---|---|
| 1 | In sociological imagination C Wright Mills unravelled-<br>(A) how public and personal issues are related<br>(B) causes of poverty<br>(C) process of socialization<br>(D) importance of society  | 1 |
| 2 | “People are poor because they are afraid of work “-This statement depicts<br>(A) a naturalist explanation of poverty<br>(B) sociological explanation of poverty<br>(C) economic explanation of poverty<br>(D) theological explanation of poverty  | 1 |
| 3 | 17 years old Dampy possesses the <b>status</b> of a daughter, sister, female and African American race. These status may be grouped under<br>(A) Ascribed status<br>(B) Achieved status<br>(C) Both A and B<br>(D) International status   | 1 |
| 4 | The factory was perceived as an archetype of an economic ----- hitherto known only in barracks and prisons.   | 1 |
| 5 | Match List - I with List - II :<br>List - I<br>(a) Role<br>(b) Status<br>(c) Role conflict<br>(d) Ascribed status<br>Select the correct answer from the code given below :<br>(a) (b) (c) (d)<br>(A) (ii) (i) (iv) (iii)<br>(B) (iii) (ii) (i) (iv)<br>(C) (iv) (i) (iii) (ii)<br>(D) (i) (iv) (iii) (ii) | 1 |
| 6 | A system of remarriage often on the death of the first spouse or after divorce is known as<br>(A) monogamy<br>(B) serial monogamy<br>(C) polyandry<br>(D) serial polyandry  | 1 |

- 7 The ----- Revolution was based upon a new, dynamic form of economic activity which was capitalism 1
- 8 That form of power which is accepted as legitimate is called- 1  
 (A) authority (B) traditional power  
 (C) sovereignty (D) balanced power
- 9 Social classes, status groups, age and gender groups, crowds can be seen as examples of ---- groups. 1
- 10 **Mark the statement true or false** 1  
 Secondary groups are relatively small in size, maintain informal and personal relationships.
- 11 The ----- family is seen as the unit best equipped to handle the demands of industrial society by the functionalist. 1  
 Or  
 In exogamous marriage, individuals are said to marry outside -----.
- 12 The ----- dimension of culture refers to how we learn to process what we hear or see, so as to give it meaning (identifying the ring of a cell-phone as ours, recognising the cartoon of a politician). 1
- 13 **Mark the statement true or false** 1  
 Political institutions are concerned with the distribution of power in society.
- 14 Ethnocentrism is the opposite of -----, which values other cultures for their difference. 1
- 15 **Mark the statement true or false** 1  
 Clifford Geertz suggested that we look at human actions in the same way as we look at words in a book, and see them as conveying a message. "... Man is an animal suspended in webs of significance he himself has spun. I take culture to be those webs..."
- 16 **Correct the incorrect statement and rewrite** 1  
 When a culture is transformed rapidly and its values and meaning systems undergo a radical change then evolutionary change takes place.

### SECTION B

- 17 Write two features of European society which got changed after the advent of intellectual revolution (Enlightenment). 2
- 18 Differentiate 'Ascribed Status' from 'Achieved Status'. 2
- 19 Write the meaning of reference group by giving one example. 2
- 20 How is society interdependent? 2
- 21 Write one important feature of cultural lag. 2
- 22 "Informal education is spontaneous and largely unplanned." Do you agree with the statement. Give reasons. 2  
 Or  
 Mention two major functions of kinship.
- 23 Give one example of ethnocentric behavior. 2
- 24 What is sub-cultural group? Give one example of it. 2
- 25 Why is the study of the origin and growth of Sociology important? 2

### SECTION C

- 26 **Read the following source/ passage and answer questions that follow** 1x4  
 "The ultimate and, no doubt, the oldest means of social control is physical violence... even in the politely operated societies of modern democracies the ultimate argument is violence. No state can exist without a police force or its equivalent in armed might... In any functioning society violence is used economically and as a last resort, with the mere threat of this ultimate violence sufficing for the day-to-day exercise of social control... Where human beings live or work in compact groups, in which they are personally known and to which they are tied by feelings of personal loyalty (the kind that sociologists call primary groups), very potent and simultaneously very subtle mechanisms of control are constantly brought to bear upon the actual or potent deviant... (Berger 84-90)."
- =4

(i) The social process, techniques and strategies by which behaviours of individual or a group are regulated is known as

- (A) Deviance
- (B) Socialization
- (C) Social control
- (D) None of these

(ii) Even in the democracies the ultimate source of social control is

- (A) Consensus
- (B) Religion
- (C) Economic institutions
- (D) Violence

(iii) For a functionalist perspective social control refers to:

- (A) the use of force to regulate the behaviour of the individual and groups
- (B) enforcing of values and patterns
- (C) maintaining order in society
- (D) All above

(iv) Social control may be

- (A) informal
- (B) formal
- (C) Both A and B
- (D) None of these

27 **Read the following Source/passage and answer the questions that follow**

Ix4=  
4

“The elder brother of a 19-year-old girl here carried out an apparent ‘honour killing’ by allegedly beheading her while she was asleep at a hospital ... police said on Monday.

The girl...was undergoing treatment at ... Hospital for stab wounds after her brother... attacked her on December 16 for marrying outside the caste, they said. She and her lover eloped on December 10 and returned to their houses here on December 16 after getting married, which was opposed by her parents, they said.

The Panchayat also tried to pressurise the couple but they refused to be swayed.”

(i) Modes of action, which do not conform to the norms or values is Called-

- (A) Social control
- (B) Deviance
- (C) Identity
- (D) All of these

(ii) What was the guilt of the girl in view of her parents?

- (A) She committed theft
- (B) She married outside caste
- (C) She killed her husband
- (D) None

(iii) In many parts of rural India which of the following body act as courts?

- (A) Police department
- (B) NGOs
- (C) Political parties
- (D) Panchayats


(iv) Who is most likely to be a victim of honour killing

- (A) A male
- (B) A female
- (C) An old aged person
- (D) A soldier

- 28 **Read the following Source/passage and answer the questions that follow** “Citizenship rights include civil, political and social rights. Civil rights involve the freedom of individuals to live where they choose; freedom of speech and religion; the right to own property; and the right to equal justice before the law. Political rights include the right to participate in elections and to stand for public office. In most countries governments were reluctant to admit the principle of universal franchise. In the early years not only women, but a large section of the male population was excluded as holding a certain amount of property was an eligibility criterion. Women had to wait longer for the vote. The third type of citizenship rights are social rights.” 2+2  
=4
- (i).How do citizenship rights affect our life?  
(ii) Give two examples of social rights.
- 29 Express the correlation between Sociology and Political science. 4  
Or  
Express the correlation between Sociology and History..
- 30 Discuss the salient characteristics of the Social groups. 4
- 31 Define Religion. Enlist the major characteristics that all religions seem to share. 4
- 32 What is culture? Explain its three dimensions. 4

/

#### SECTION D

- 33 How the success of Industrial revolution caused changes in the social life of people universally? 6
- 34  6

The picture mentioned above indicates about one innovative method introduced by Maruti Udyog Limited for increasing production of cars. On the light of the picture explain transformation of work in modern society.

- 35 Define socialization. Examine the role of its various agents in shaping human personality. 6  
Or  
Explain the need and importance of culture for human society.

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**D.A.V INSTITUTIONS, WEST BENGAL ZONE**  
**MID TERM EXAMINATION**  
**SESSION -2022-23**

**Class : XI**  
**Subject : POLITICAL SCIENCE**

**Maximum Marks : 80**  
**Time : 3 Hours**

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**General Instructions :-**

- i) The question paper has SECTIONS A, B, C, D, E and F. There are 32 questions and some questions have internal choices.
- ii) All questions are compulsory.
- iii) Write the correct question number as given in the question paper while answering in your answer book.
- iv) a) Answer to questions of 1 mark should not exceed 20 words each.  
b) Answer to questions of 2 marks should not exceed 40 words each.  
c) Answer to questions of 4 marks should not exceed 100 words each.  
d) Answer to questions of 5 marks should not exceed 120 words each.  
e) Answer to questions of 6 marks should not exceed 150 words each.

**SECTION—A**

- 1. Which of these is not a function of the constitution? 1
  - (A) It gives a guarantee of the rights of the citizen.
  - (B) It marks out different spheres of power for different branches of government.
  - (C) It ensures that good people come to power.
  - (D) It gives expression to some shared values.
- 2. Which one of the following features is not included in the political philosophy of the Indian Constitution? 1
  - (A) Norms and values
  - (B) Justification of the values
  - (C) Character traits of our constitution framers
  - (D) Conceptual structure of our constitution
- 3. Which of the following is the best description of Fundamental Rights? 1
  - (A) All the rights an individual should have
  - (B) All the rights given to citizens by law
  - (C) The rights given and protected by the Constitution
  - (D) The rights given by the Constitution that cannot ever be restricted.
- 4. Directive Principles are - 1
  - (A) Justiciable
  - (B) Not Justiciable
  - (C) Both of them
  - (D) Non negotiable
- 5. Which factors are responsible for the growth of the Indian Constitution - 1
  - (A) Amendments
  - (B) Precedents
  - (C) Judicial Decision
  - (D) Both (A) & (C).

OR

A constitution needs to be amended from time to time because -

- (A) Circumstances change and require suitable changes in the constitution.
- (B) A document written at one point of time becomes outdated after some time.
- (C) Every generation should have a constitution of its own liking.
- (D) It must reflect the philosophy of the existing government.



6. The Japanese Constitution is popularly known as - 1  
 (A) Complex constitution  
 (B) Advance constitution  
 (C) Peace constitution  
 (D) Concord constitution
7. Right to Equality is included in the - 1  
 (A) Article 40  
 (B) Article 34  
 (C) Article 14  
 (D) Article 24
8. Which statement is true about a Constitution? 1  
 (A) Constitutions are documents about formation and power of the government.  
 (B) Constitutions exist and are required only in democratic countries.  
 (C) Constitution is a legal document that does not deal with ideals and values.  
 (D) A Constitution gives its citizens only economic rights.
9. Given below are two statements, one as Assertion (A) and the other as Reason (R): 1  
 Assertion (A): India is a sovereign socialist secular democratic republic. Reason (R): The words socialist, and secular were inserted by (42nd Amendment) Act 1976 between the words Sovereign and Democratic.  
 Choose the correct answer from the codes given below:  
 (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)  
 (C) (A) is true, but (R) is false  
 (D) (A) is false, but (R) is true.
10. The term Politics is derived from: 1  
 (A) Latin word 'Polis'  
 (B) Greek word 'Polis'  
 (C) English word 'Political'  
 (D) Greek word 'City-State'.
11. Liberty of the individual prevails when there is - 1  
 (A) No policemen  
 (B) No Judge  
 (C) No Law  
 (D) Democracy
12. Which of the following tend to create discrimination among the society? 1  
 (i) Gender (ii) Caste (iii) Region (iv) Religion  
 Select the correct options.  
 (A) (i), (ii) and (iii)  
 (B) (ii), (iii) and (iv)  
 (C) (i), (iii) and (iv)  
 (D) (i), (ii), (iii) and (iv)
13. \_\_\_\_\_ once observed that politics envelops us like the coils of a snake and there is no other way out but to wrestle with it. 1  
 (A) Mahatma Gandhi  
 (B) Aristotle  
 (C) Ambedkar  
 (D) Nehru

14. 14. In the context of Indian Constitution, the term used for justifiable constraints is\_\_\_\_\_ 1
- (A) Valid restrictions  
(B) Justifiable restrictions  
(C) True restrictions  
(D) Reasonable restrictions
15. Which of the following statements is incorrect? 1
- (A) Inequalities which are entrenched, that is, which remain relatively untouched over generations, are more dangerous for a society.  
(B) Feminism is a political philosophy that advocates for equal rights for men and women.  
(C) For liberals the principle of competition is the most just and efficient way of selecting candidates for jobs or admission to educational institutions.  
(D) The main concern of socialism is to maximise existing inequalities and distribute resources unevenly.
16. Given below are two statements, one as Assertion (A) and the other as Reason (R): 1
- Assertion (A) French revolutionaries used the slogan 'Liberty, Equality and Fraternity' to protest against the democracy.  
Reason (R) During anti-colonial independence movements in Asia and Africa in the twentieth century, the demand for equality also increased.
- Choose the correct answer from the codes given below:**
- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(B) Both (A) and (R) are true but (R) is not the correct explanation of (A)  
(C) (A) is true, but (R) is false  
(D) (A) is false, but (R) is true.

### SECTION-B

- 17 **Read the passage carefully and chose the correct option :** 1x4
- Much before the Constituent Assembly finally came into being, the demand for such an assembly had already been made. This was echoed by Dr. Rajendra Prasad in his first address as the Chairman of the Constituent Assembly of India on 9 December 1946. Rajendra Prasad quotes Mahatma Gandhi that swaraj would mean wishes of the people as expressed through their freely chosen representatives. He said ".....the idea of a Constituent Assembly had come to prevail largely as an article of faith in almost all the politically-minded classes in the country."
- (I) What is the meaning of the word / term "Swaraj" according to Mahatma Gandhi?
- (A) Wishes of the people are expressed through their freely chosen representatives.  
(B) It's is our birth right and we should have it.  
(C) Wishes of the people are expressed through their not freely chosen representatives  
(D) Demand for an assembly to be made by the citizens of the country.
- (II) Who was the chairman of the Constituent Assembly?
- (A) Mahatma Gandhi  
(B) Jawaharlal Nehru  
(C) Rajendra Prasad  
(D) B R Ambedkar
- (III) When was the first address of the chairman of the constituent assembly held?
- (A) 9 December 1946  
(B) 9 November 1950  
(C) 5 December 1946  
(D) 9 November 1946

(IV) The idea of a Constituent Assembly had come to prevail largely as an article of \_\_\_\_\_ in almost all the politically-minded classes in the country.

- (A) Faith
- (B) Respect
- (C) Integrity
- (D) Peace

18 **Read the passage and answer the questions that follow.**

1x4

Freedom is at the core of human society, is so crucial for a dignified human life, it should only be constrained in special circumstances. The harm caused must be 'serious. For minor harm, Mill recommends only social disapproval and not the force of law. For example, the playing of loud music in an apartment building should bring only social disapproval from the other residents of the building. They should not involve the police. They should indicate their disapproval, of the inconvenience that playing loud music has caused them, by perhaps refusing to greet the person who plays the music disregarding the harm it is causing others.

(I) Since \_\_\_\_\_ is at the heart of human society and is so essential for living a meaningful life, it should only be restricted in extraordinary cases.

- (A) liberty
- (B) freedom
- (C) justice
- (D) equality

(II) A free market economy with the government playing a minor role is advocated by \_\_\_\_.

- (A) Regionalism
- (B) Globalisation
- (C) Liberalism
- (D) Privatisation

(III) What has been recommended by JS Mill in case of minor harm?

- (A) Minimum constraints
- (B) Social approval
- (C) Social disapproval
- (D) Maximum constraints

(IV) This government recognises force of law, in case of minor harm as an essential way of establishing authority.

- (A) Monarchy
- (B) Representative Democracy
- (C) Republic
- (D) Dictatorship

**SECTION - C**

- 19. Identify the significance of Cabinet Mission Plan 2
- 20. What is Quo Warranto? 2
- 21. How can you argue in favour of positive freedom? 2

**OR**

Do liberty and authority coexist? Give reasons for your answer.

- 22. Do you agree that an affirmative action helps in minimising the social inequalities present in the society? Give reasons for your answer. 2

**SECTION - D**

- 23. How is India a secular state? Explain. Why do we need a secular country in modern times? 4

**OR**

Examine the significance of the political philosophy of the Indian Constitution.

24. If amending power is with the elected representatives, judiciary should NOT have the power to decide the validity of amendments. Do you agree? Give your reasons for your answer. 4
25. Vigilant citizens are a must for the successful working of democracy. Comment. 4
26. "No society treats all its members in exactly the same way under all conditions." Explain this statement. 4

**OR**

How can affirmative action help in minimising social inequalities?

27. "Patriarchy is based on the assumption that men and women are different by nature and this difference justifies their unequal positions in society." Comment on this statement based on your own experiences. 4

**OR**

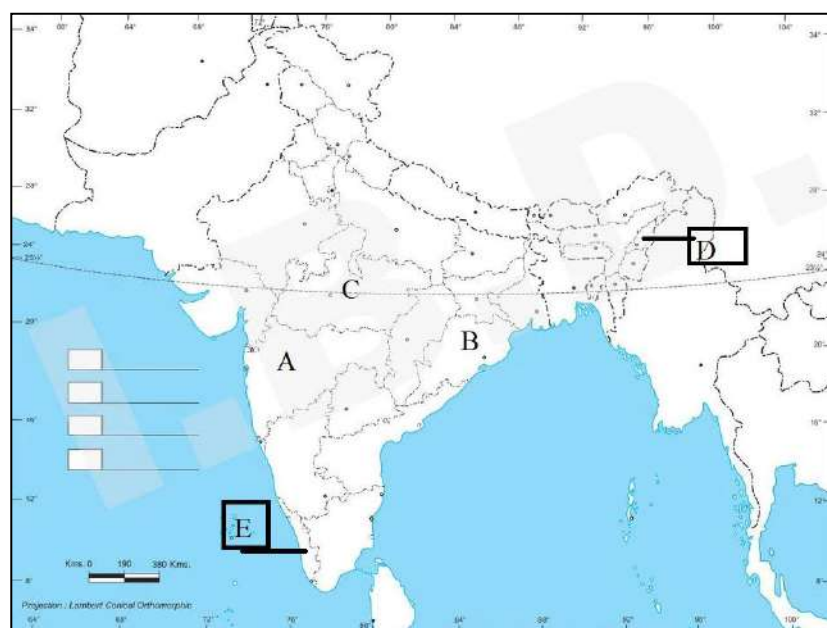
What steps can taken to achieve formal equality?

### SECTION - E

28. Read the picture given below and answer the questions that follow: 5



- (A) Name the person and her political party.  
 (B) Identify the country of her origin.  
 (C) Name the book written by this great personality.  
 (D) What was her idea about freedom?
29. In the political outline map of India given above, five states have been marked as A, B, C, D and E. Identify these states on the basis of information given below and write their correct names in the answer book along with the respective serial number of the information used and the concerned alphabet in the map as per the following format. 1x5



Serial.	Alphabet Name	Name of the state
i.	A	
ii.	B	
iii.	C	
iv.	D	
v.	E	

1. The present Head of the Indian Union hails from this State.
2. The Kesavananda Bharti case was filed against this State Government.
3. Special status has been accorded to this State to protect the local identity of the people.
4. President of the Drafting Committee of the Indian Constitution who fought for the rights of the Dalits, belonged to this State.
5. This State was the home of Jotirao Phule, a radical socialist reformer.

#### **SECTION - F**

- 30 The Constitution of India is a bag of borrowing. Discuss. 6

**OR**

What are the main factors responsible for the success of the Indian Constitution?

- 31 The Right to freedom is a cluster of several rights. Explain. 6

**OR**

‘Article 32 is the heart and soul of Fundamental Rights.’ Which right is guaranteed by this article of the Constitution? Explain the importance of this right in the democratic process. 1+5

32. Discuss the scope of political Theory. 6

**OR**

‘It is believed that without economic equality political equality is a myth.’ Explain the statement using valid reasons. Give one point of difference between natural and social inequalities. 5+1

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