

**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: 2023-2024**

**Class: XI**  
**Subject: Political Science**

**Maximum Marks: 80**  
**Time: 3 hours**

**INSTRUCTIONS:**

1. The question paper consists of five sections (A, B, C, D and E) with 30 questions in total.
2. All questions are compulsory.
3. Question numbers 1-12 are multiple choice questions of one mark each.
4. Question numbers 13-18 are of 2 marks each. Answers to these questions should not exceed 50-60 words each.
5. Question numbers 19-23 are of 4 marks each. Answers to these questions should not exceed 100-120 words each. There is an internal choice in two of the 4 marks questions
6. Question numbers 24-26 are passage, cartoon and map-based questions. Answer accordingly.
7. Question numbers 27-30 are of 6 marks each. Answers to these questions should not exceed 170-180 words. There is an internal choice in 6 marks questions.

**SECTION- A (12 MARKS)**

- 1 **Arrange the chronology of events with regard to the passing of Ordinary Bills:** 1  
(i) After discussion of a bill in the House, the proposal can be accepted or rejected.  
(ii) It is sent to the other House for approval. Presidential approval is necessary for the bill to become a law.  
(iii) The Committee places report on which the bill is structured.  
(iv) People's inputs are taken up by the committees.  
**Options:**  
(A) (iv), (ii), (iii), (i)  
(B) (iv), (iii), (i), (ii)  
(C) (i), (ii), (iv), (iii)  
(D) (i), (ii), (iii), ss(iv)
- 2 **Complete the sentence by filling in the correct answer:** 1  
In countries where representative democracy is practiced, elections and the representative character of those elections are \_\_\_\_\_.  
(A) Putting extra burden on economy.  
(B) Crucial factors in making democracy effective and trustworthy.  
(C) Increasing the chances of electoral malpractices.  
(D) Biased and leading to unstable government.
- 3 The Presidential form puts too much emphasis on the President as the Chief Executive and a source of all executive power. There is always a chance of: 1  
(A) Giving rise to personality cult.  
(B) Imposition of Emergency.  
(C) The executive being sensitive to public expectations.  
(D) The executive being effectively controlled by the representatives of the people.
- 4 The country that follows FPTP electoral system is \_\_\_\_\_ 1  
(A) Israel  
(B) The UK  
(C) The Netherlands  
(D) Argentina

- 5 **Match List I with List II** 1
- | LIST I          | LIST II  |
|-----------------|--|
| a. Mandamus     | (i) If the court finds that a person is holding office but is not entitled to hold that office, it issues this writ and restricts that person from acting as an office holder. |
| b. Prohibition  | (ii) The court orders a lower court or another authority to transfer a matter pending before it to the higher authority or court.  |
| c. Quo Warranto | (iii) The court issues this writ when it finds that a particular office holder is not doing legal duty and thereby is infringing on the right of an individual                 |
| d. Certiorari   | (iv) This writ is issued by a higher court when a lower court has considered a case going beyond its jurisdiction.   |
- Codes:
- (A) a (iv), b (ii), c (iii), d (i)  
 (B) a (iii), b (iv), c (i), d (ii)  
 (C) a (ii), b (iii), c (iv), d (i)  
 (D) a (i), b (ii), c (iii), d (iv)
- 6 **In the following question, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the appropriate option as answer:** 1
- Assertion (A):** The most successful Constitutions like India, South Africa and the United States were created in the aftermath of popular national movements.
- Reason (R):** Although the Constitution itself was not subjected to a referendum; the people adopted it as their own by abiding its provisions, without any debate.
- (A) Both the Assertion and the Reason are correct, and the Reason is the correct explanation of the Assertion.  
 (B) Both the Assertion and the Reason are correct, but the Reason is not the correct explanation of the Assertion.  
 (C) The Assertion is incorrect, but the Reason is correct.  
 (D) The Assertion is correct, but the Reason is incorrect.
- 7 **Read the statement given below and choose the correct option:** 1
- In most countries, 'Constitution' is a compact document that comprises of a number of Articles about:
- The State
  - Specifying how the state is to be constituted
  - Dictating the choices of the citizens
  - No claims about protection of basic human rights
- Option:**
- (A) i & ii  
 (B) i, ii & iv  
 (C) ii & iii  
 (D) i, ii & iii
- 8 **Choose the correct statement or statements:** 1
- Political theory deals with the ideas and principles that shape constitutions, governments and social life in a systematic manner.
  - Political theory explains the concepts such as freedom, equality, justice, democracy, secularism vaguely.
  - Political theory probes the significance of principles such as rule of law, separation of powers, judicial review, etc.
  - Political theory exposes us to systematic thinking on justice or equality so that we can polish our opinions and argue in an informed manner for the sake of common interests.

(A) (i) , (ii) , (iii) , (iv)

(B) (i) and (ii) only

(C) (i) , (iii) and (iv)

(D) (i) , (ii) and (iii)

9 **Find out the incorrect statements about freedom?** 1

(A) Freedom is said to exist when external constraints on the individual are absent.

(B) Freedom is also about expanding the ability of people to freely express themselves and develop their potential.

(C) Freedom is the state of being able to express one's imagination and skill.

(D) Absence of constraints is the only dimension of freedom.

10 **In the following question, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the appropriate option as answer:** 1

**Assertion (A):** It is inequality rather than equality which is most visible around us in the world as well as within our own society.

**Reason (R):** In our country we can see slums existing side by side with luxury housing, schools with world class facilities, air-conditioned classrooms along with schools which may lack even drinking water facilities.

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

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

(C) The Assertion is incorrect, but the Reason is correct.

(D) The Assertion is correct, but the Reason is incorrect.

11 Advocates of Socialism are not entirely opposed to the market. Which of the following do they favour? 1

(A) Private ownership that will make the class of owners wealthy.

(B) Principle of competition is the most efficient and fair way of distributing resources and rewards in the society.

(C) Public/private distinction and all forms gender inequalities can and should be eliminated.

(D) Government regulation, planning and control over certain key areas such as education and health care.

12 \_\_\_\_\_ reminds young people that if everyone were to be unjust, if everyone manipulated rules to suit their own interests, no one could be sure of benefitting from injustice. 1

(A) Plato

(B) Aristotle

(C) Socrates

(D) Cicero

### SECTION- B (12 MARKS)

13 “The parliamentary system of executive vests many powers in the legislature for controlling the executive.” Do you think, it is necessary to control the executive? Give two points to clarify your view. 2

14 Narrate the circumstances under which a joint session of the Parliament is summoned. 2

15 ‘The actions of the government affect us deeply; we take a lively interest in what Government does’. Explain any two roles played by the citizens in making the Government more accountable. 2

16 “Liberty implies proper restraints rather than absence of restraints”. Justify the statement. 2

- 17 What is equality before law? 2
- 18 What are Liberalists' and Marxists' views of justice? 2

**SECTION-C (20 MARKS)**

- 19 An activist working among the poor says that the poor donot need Fundamental Rights. What they need are Directive Principles to be made legally binding. Do you agree with this? Give your reasons. 1+3

**OR**

A petition by a human rights group drew attention of the court to the condition of starvation and hunger in the country. Over five crore tonnes of food grains was stored in the godowns of the Food Corporation of India. Research shows that a large number of ration cardholders do not know about the quantity of food grains they can purchase from fair price shops. They requested the court to order the government to improve its public distribution system

2+2

(a) Which different rights does this case involve? How are these rights inter-linked?  
(b) Should these rights form a part of the right to life? Justify your answer with two valid reasons.

- 20 "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. 4×1
- 21 "The independence of the Election Commission is ensured" — Explain this statement with suitable arguments. 4×1
- 22 Discuss the concept of 'Proportionate Justice, and also cite relevant examples. 4
- 23 State your arguments in favour of unicameral legislature. 4

**OR**

Does deliberation and discussion keep control over the executive? Throw light on this statement giving any four instances.

**SECTION-D (12 MARKS)**

- 24 **Read the passage given below and answer the questions that follow:** 1+1+1+1

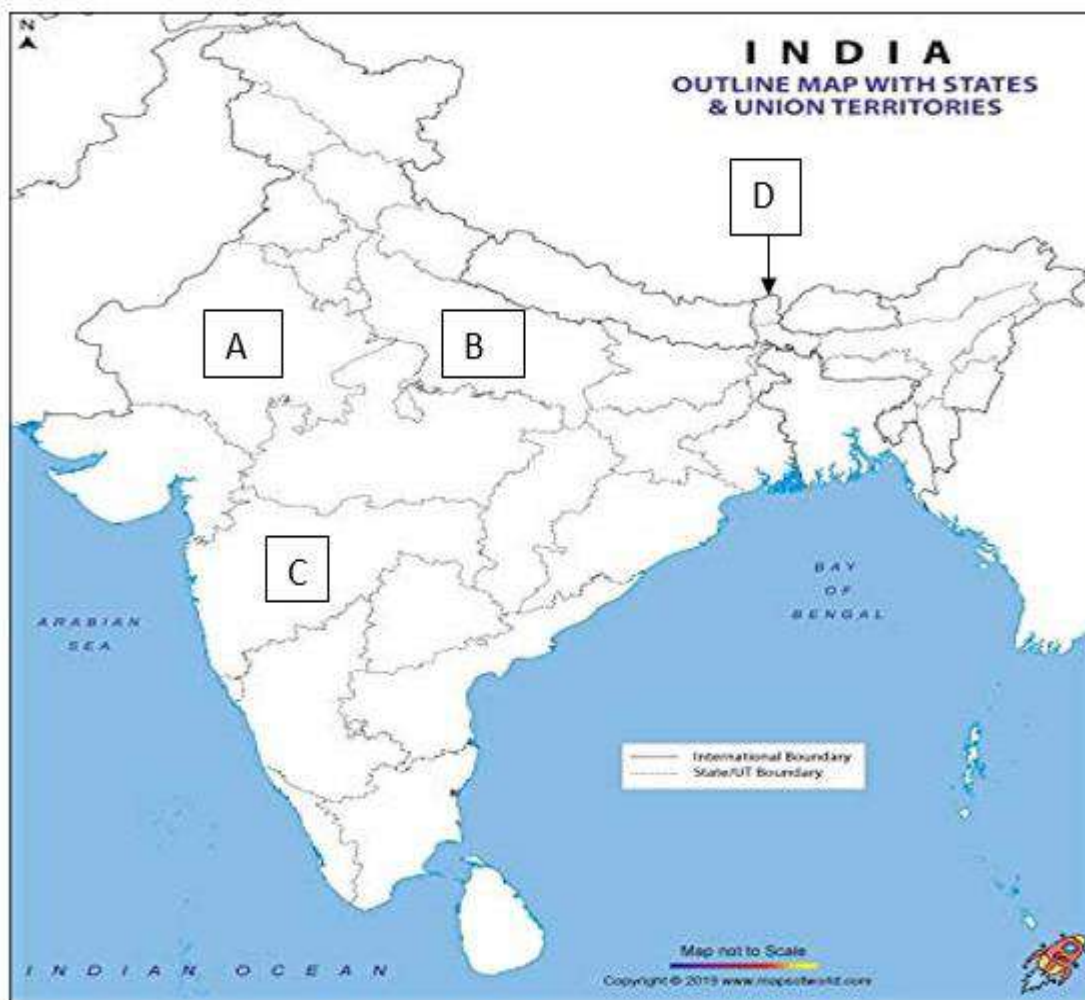
Political theory examines questions of this kind and systematically and thinks about the values that inform political life- values such as freedom, equality and justice. It explains the meaning and significance of these and other related concepts. It clarifies the existing definitions of these concepts by focusing on some major political thinkers of the past and present. It also examines the extent to which freedom or equality are actually present in the institutions that we participate in, everyday life such as schools, shops, buses or trains or government offices.

- Which of the following best describes the term 'politics'?
  - Pursuing personal or group interests.
  - The pursuit of self-interest by any and every method.
  - An undesirable activity that we should stay away from.
  - An integral and important part of any society.
- \_\_\_\_\_ first argued for freedom as a fundamental right of humankind.
  - Karl Marx
  - Mahatma Gandhi
  - John Locke
  - Rousseau
- Which of the following clearly contains ideas of Mahatma Gandhi?
  - Fundamental Rights
  - Directive Principles of State Policies
  - Right To Constitutional Remedies
  - Right Against Exploitation

4. Why did Mahatma Gandhi observe that ‘Politics envelops us like the coils of a snake’?
- Politics is an unwanted phenomenon.
  - No society can exist without some form of political organization and collective decision-making.
  - It is like an enemy that poisons us slowly.
  - It leads to manipulation and intrigues one to satisfy their wants.

25 In the given outline political map of India, four states have been marked as (A), (B), (C) and (D). Identify these states on the basis of the information given below and write their correct names in your answer book along with the respective serial numbers of the information used and the concerned alphabets as per the format that follows: 1+1+1+1

- The state that sends 31 members to the Rajya Sabha.
- The state related to Om Birla, the present Speaker of the Lok Sabha.
- The state that has one seat in the Rajya Sabha.
- The state having bi-cameral legislature.



Sl. Number for the information used	Alphabet Concerned	Name of the States
(i)		
(ii)		
(iii)		
(iv)		



- 1) What does the above picture depict?
- 2) On what basis does the Prime Minister choose the Cabinet Ministers?
- 3) Explain the term 'Collective Responsibility'.

### SECTION-E (24 MARKS)

- 27 "Indian democracy is now ready to shift from a crude First Past the Post system to a system of Proportional Representation". Do you agree with this statement? Give reasons. 6

**OR**

Elucidate the functions of the Election Commission of India.

- 28 Explain idea of veil of ignorance used by Rawls to argue that fair and just distribution can be defended on rational grounds. 6

**OR**

Briefly discuss the three principles of justice. Explain each with examples.

- 29 "The President often writes to the Prime Minister and expresses his views on matters confronting the country." Explain the Discretionary powers of the President of India. 6

**OR**

"As head of the Council of Ministers, the Prime Minister becomes the most important functionary of the government in our country." Justify the statement in view of the role and functions of the Prime Ministers.

- 30 "No idea is completely false. What appears to us as false has an element of truth". Justify the statement in the context of Freedom as propounded by J. S. Mill. 6

**OR**

Write the differences between the Negative and Positive conceptions of Liberty.

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## **HALF YEARLY EXAMINATION**

**SESSION 2023-2024**

**CLASS: XI**

**MAXIMUM MARKS: 80**

**SUBJECT: ACCOUNTANCY**

**TIME: 3 HRS**

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### **GENERAL INSTRUCTIONS:-**

1. This question paper contains 8 pages and 34 questions. All questions are compulsory.
2. Question Nos.1 to 20 carries 1 mark each.
3. Questions Nos. 21 to 26 carries 3 marks each.
4. Questions Nos. from 27 to 29 carries 4 marks each.
5. Questions Nos. from 30 to 34 carries 6 marks each.
6. There is no overall choice. However, an internal choice has been provided in five questions of one mark, two questions of three marks, one question of four marks and two questions of six marks.

- 
- |    |  |   |
|----|--|---|
| 1. | Which of the given below events can be identified as business transaction:   | 1 |
|    | A. Receiving orders for supply of goods  |   |
|    | B. Purchase of goods on credit   |   |
|    | C. Withdrawal by proprietor for personal use   |   |
|    | D. Both B & C  |   |
| 2. | It means decision-makers must interpret accounting information in the same sense as it is prepared and conveyed to them. | 1 |
|    | Identify the Qualitative Characteristics of Accounting Information discussed in the above statement.                     |   |
|    | A. Reliability   |   |
|    | B. Relevance   |   |
|    | C. Understandability   |   |
|    | D. Comparability   |   |

**OR**

- Internal user of accounting information is
- |    |   |   |
|----|---|---|
|    | A. Commercial Bank                                |   |
|    | B. Management                                     |   |
|    | C. Government                                     |   |
|    | D. Researchers                                    |   |
| 3. | A person who owes money to the firm is called a : | 1 |
|    | A. Creditor.                                      |   |
|    | B. Debtor.  |   |
|    | C. Proprietor.                                    |   |
|    | D. None of these.                                 |   |
| 4. | Bank overdraft is a                               | 1 |
|    | A. Short term liability                           |   |
|    | B. Long term liability                            |   |
|    | C. Contingent liability                           |   |
|    | D. None of these                                  |   |

5. It refers to the span of time at the end of which the financial statements of an enterprise are prepared, to know whether it has earned profits or incurred losses during that period and what exactly is the position of its assets and liabilities at the end of that period. 1

- A. Going Concern Concept
- B. Accounting Period Concept
- C. Cost Concept
- D. Dual Aspect Concept

OR

The \_\_\_\_\_ concept requires that all assets are recorded in the book of accounts at their purchase price, which includes cost of acquisition, transportation, installation and making the asset ready to use.

- A. Going Concern Concept
  - B. Accounting Period Concept
  - C. Cost Concept
  - D. Revenue Recognition (Realisation) Concept
6. Which concept / principle say that “Capital is a liability for the business”? 1
- A. Going Concern
  - B. Accounting Period
  - C. Business Entity
  - D. Full Disclosure
7. Accrual Basis of Accounting 1
- A. Does not give a true and fair view of profit and financial position.
  - B. Gives a true and fair view of profit and financial position.
  - C. May or may not give a true and fair view of profit and financial position.
  - D. None of the above.
8. These are written policy documents covering the aspects of recognition, measurement, treatment, presentation and disclosure of accounting transactions in financial statements. 1
- A. Accounts
  - B. Accounting standards
  - C. Accounting
  - D. Journal Entries
9. Import of goods and services are also covered under \_\_\_\_\_. 1
- A. CGST
  - B. SGST
  - C. IGST
  - D. Rates



10. Which of the given below equation is incorrect? 1

- A.  $\text{Capital} = \text{Assets} - \text{Other Liabilities}$
- B.  $\text{Other Liabilities} = \text{Assets} + \text{Capital}$
- C.  $\text{Other Liabilities} = \text{Assets} - \text{Capital}$
- D.  $\text{Assets} = \text{Capital} + \text{Other Liabilities}$

**OR**

Total Assets of a business are Rs. 10, 00,000. Total Liabilities are Rs. 7,00,000.

The difference is called

- A. Income
- B. Expense
- C. Capital
- D. Goodwill

11. If goods are returned by the customer, then trader prepares: 1

- A. Debit Note.
- B. Credit Note.
- C. Pay-in-slip.
- D. Bill.

12. The balance of Petty Cash Book is: 1

- A. Expenses.
- B. Liability.
- C. Asset.
- D. Profit.

13. From the given below Transactions made by a trader calculate the total of Sales Book : 1

- (I) Sold goods to Gupta on credit Rs. 4,000.
- (II) Sold goods to Shyam on Cash Rs. 5,000.
- (III) Sold goods to Mohan on credit Rs. 7,000.
- A. Rs. 11,000.
- B. Rs. 16,000.
- C. Rs. 12,000.
- D. Rs. 9,000.

14. M/s Suresh & Sons is preparing bank reconciliation statement. Debit balance as per cash book was Rs. 3,72,000. One cheque deposited in bank but not collected by bank for Rs. 15,400. Rs. 5,000 received as dividend (no entry in cash book). What will be the balance as per passbook? 1

- A. Rs. 3,72,000.
- B. Rs. 3,77,000.
- C. Rs. 3,92,400.
- D. Rs. 3,61,600.

15. Favourable bank balance as per Cash Book means: 1

- A) Debit balance in the Cash Book.
- B) Credit balance in the Cash Book.
- C) Debit balance in the Pass Book.
- D) None of the above.

**OR**

Overdraft of Pass Book is:

- A) Credit balance of Cash Book.
- B) Debit balance as per Cash Book.
- C) Credit balance of Pass Book.
- D) None of the above.

16. Bank Reconciliation is a \_\_\_\_\_ and not an \_\_\_\_\_ 1  
 A. Ledger, Journal.  
 B. Account, Statement.  
 C. Statement, Account.  
 D. Ledger, Account.
17. Given below are two statements, one labelled as **Assertion (A)** and other labelled as **Reason (R)**: 1  
**Assertion (A)**: Bank Reconciliation Statement is prepared by bank.  
**Reason (R)**: Bank Reconciliation Statement is prepared to find out the reasons for difference between the bank balance shown by the cash book and pass book balance.  
 In the context of the above statements, Choose the correct Code?
- Codes:**
- 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.
18. If trial balance does not agree after all efforts, the difference is written in: 1  
 A. Capital Account.  
 B. Drawings Account.  
 C. Suspense Account.  
 D. None of the above.
19. Trial balance is used to check the accuracy of 1  
 A. Balance sheet balances  
 B. Ledger accounts balances  
 C. Cash flow statement balances  
 D. Income statement balances

OR

Preparation of Trial Balance is \_\_\_\_\_

- A. Voluntary  
 B. Compulsory  
 C. Neither voluntary nor compulsory  
 D. Both A & B
20. Which of the given below account with normal balance is shown at the debit side of a trial balance? 1  
 A. Creditors account  
 B. Unearned income account  
 C. Rent income accounts  
 D. Cash account
21. Explain any three objectives of accounting. 3
22. The comparison between the financial results of two enterprises would be meaningful only if same kind of accounting methods and policies are adopted in the preparation of financial statements. 3

(i) Identify the concept discussed in the above statement.

(ii) Explain the concept identified in part (i).

23. Explain : 3  
(i) Cash basis; and  
(ii) Accrual basis.

**OR**

During the financial year, Rajan had cash sales of Rs.4,50,000 and credit sales of Rs. 3,00,000. Expenses incurred for the year were Rs.3,50,000 out of which Rs.1,50,000 are still to be paid.

Find out Rajan's Net profit or Loss as per :

- (i) Cash basis of accounting.  
(ii) Accrual basis of accounting.
24. Prepare Mohan's Account (Customer) from the given below transaction: 3  
(i) Goods sold to Mohan for Rs.20,000.  
(ii) Goods returned by Mohan Rs.4,000.  
(iii) Cash paid by Mohan Rs.5,000.  
(iv) Goods sold to Mohan in cash Rs.3,000 and on credit Rs.8,000.  
Mohan's Account was fully settled with discount of Rs.1,000.
25. Prepare Purchase Book in the books of Karam Tea house , Kolkata from the 3  
given below transactions :

2023	
April 8	Purchased on credit from Subodh Brothers, Delhi: 5 chests of tea @ Rs.7,000 per chest at a Trade Discount of 10% plus IGST @ 12% .
April 12	Purchased in cash 20 boxes of tea @ Rs.500 per box at a Trade Discount of 10% plus CGST and SGST @ 6% each.
April 18	Purchased from Raj Furnishing House: 3 show cases @ Rs.7,500 per case at a Trade Discount of 10% plus CGST and SGST @ 6% each.
April 20	Purchased from Siliguri Tea Agency, Siliguri, West Bengal: 15 boxes of tea @ Rs.600 per box at a Trade Discount of 10% plus CGST and SGST @ 6% each.

26. State any three reasons when the cash book balance will be higher than 3  
passbook balance.

**OR**

State any three needs for the preparation of Bank Reconciliation Statement.

27. 'R' maintains a Columnar Petty Cash Book on the Imprest System. The imprest amount is Rs. 5,000. From the given below information, show how his Petty Cash Book would appear for the week ended 12th September, 2022: 4

2022		Rs.
Sept. 7	Balance in Hand	1,349
	Received cash reimbursement to make up the imprest	
	Postage	123
	Stationery	321
	Entertainment	54
Sept. 8	Travelling and conveyance	126
	Miscellaneous expenses	11
	Entertainment	72
Sept. 9	Repairs	1,567
Sept. 10	Postage	174
	Entertainment	127
	Travelling	673
Sept. 11	Stationery	41
	Entertainment	12
Sept. 12	Miscellaneous expenses	201
	Travelling	51
	Postage	483
	Repairs	30

28. What will be the effect of the given below transactions on the Accounting Equation? 4
- (i) Harish started business with cash Rs. 18,000
- (ii) Purchased goods for Cash Rs. 5,000 and on credit Rs. 2,000
- (iii) Sold goods for cash Rs. 4,000 (costing Rs. 2,400)
- (iv) Rent paid Rs. 1,000 and rent outstanding Rs. 200
29. Prepare the Trial Balance of Ankit as on 31st March, 2023. He has omitted to open a Capital Account: 4

	Rs.		Rs.
Bank Overdraft	85,000	Purchases	4,45,000
Sales	8,10,000	Cash in Hand	8,500
Purchases Return	22,500	Creditors	2,15,000
Debtors	4,00,500	Sales Return	15,750
Wages	96,000	Equipment	25,000
Capital	?	Opening Stock	3,00,500

**OR**

Prepare a Trial Balance from the given below items:

	Rs.		Rs.
Capital	24,000	Building	12,000
Opening Stock	8,500	Returns Inward	1,900
Furniture	2,600	Returns Outward	350
Purchases	8,950	Trade Expenses	1,000
Cash	7,300	Discount Received	970
Carriage	300	Salary	3,000
Sales	22,500	Office Rent	2,270

30. Explain the qualitative characteristics of accounting information. 6

**OR**

Explain the given below accounting terms :

(i) Sales; (ii) Revenues; (iii) Expenses; (iv) Loss; (v) Discount; (vi) Voucher

31. State any six characteristics of Goods and Services Tax. 6

32. Journalise the given below transactions in the books of Madan. 6  
2023

- June 2 Sold goods costing Rs. 45,000 to Suresh at a profit of  $33\frac{1}{3}\%$  on cost less 20% trade discount and paid carriage Rs. 400 ( to be charged from the customer).  
June 5 Spent Rs.300 for refreshment of a customer.  
June 7 Machinery purchased Rs.10,000 paid installation expenses Rs.2,500.  
June 9 Sold goods costing Rs.40,000 to prateek for cash at a profit of 25% on cost less 20% trade discount and paid carriage Rs. 200 (not to be charged from the customer) .  
June 17 Paid life insurance premium Rs. 5,000.

33. Prepare a double column cash book from the given below transactions of M/s Raj Krishna for the month of March, 2023 : 6

- March 1 Cash in hand Rs.70,000  
Bank overdraft Rs. 20,000  
March 5 Discounted a Bill of Exchange at 1% through bank Rs.2,000.  
March 8 Received a cheque from Rohit Rs. 5,000 for goods sold.  
March 10 Deposited Rohit's cheque into bank.  
March 19 Withdrew from bank for personal use Rs. 980.  
March 31 Bank charges Rs.100.  
March 31 Deposited into bank the entire balance after retaining Rs.1,700 at office.

34. Prepare Bank Reconciliation Statement as on 31<sup>st</sup> March, 2023 from the given below particulars. 6

- (i) On 31<sup>st</sup> March, 2023 the bank passbook of Radha showed a balance of Rs. 15,000 to her credit.  
(ii) Before that date, she had issued cheques amounting to Rs. 8,000 out of which cheques amounting to Rs. 3,200 have so far been presented for payment.

- (iii) A cheque of Rs. 2,200 deposited by her into the bank on 26th March ,2023 is not yet credited in the passbook.
- (iv) She had also received a cheque of Rs. 500 which although entered by her in the bank column of cash book, was omitted to be paid into the bank.
- (v) On 30<sup>th</sup> March, 2023 a cheque of Rs.1,570 received by her was paid into Bank but the same was omitted to be entered in the cash book.
- (vi) There was a Credit of Rs.150 for interest on current account and a debit of Rs.25 for bank charges.

**OR**

From the given below particulars of Mr. Vinod, prepare bank reconciliation statement as on March 31, 2023.

1. Bank balance as per cash book Rs. 50,000.
2. Cheques issued but not presented for payment Rs. 6,000.
3. The bank had directly collected dividend of Rs. 8,000 and credited to bank account but was not entered in the cash book.
4. Bank charges of Rs. 400 were not entered in the cash book.
5. A cheques for Rs. 6,000 was deposited but not collected by the bank.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: - 2023-2024**

**CLASS: XI**

**MAXIMUM MARKS: 80**

**SUBJECT: APPLIED MATHEMATICS**

**TIME: 3 HOURS**

**General Instructions:**

1. This question paper contains five sections A, B, C, D and E. Each section is compulsory.
2. Section – A carries 20 marks weightage, Section – B carries 10 marks weightage, Section – C carries 18 marks weightage, Section – D carries 20 marks weightage and Section – E carries 3 case – based with total weightage of 12 marks.
3. Section A comprises of **18 MCQs and 02 Assertion-Reason based questions of 1 mark each.**
4. Section B comprises of **5 VSA type questions of 2 marks each.**
5. Section C comprises of **6 SA type of questions of 3 marks each.**
6. Section D comprises of **4 LA type questions of 5 marks each.**
7. Section E has **3 case studies.** Each case study comprises of 3 case-based questions, where **2 VSA type questions are of 1 mark each and 1 SA type questions is of 2 marks.** Internal choice is provided in **2 marks** question in each case-study.
8. Internal choice is provided in **2 questions in Section -B, 2 questions in Section – C, 2 questions in Section -D.** You have to attempt only one of the alternatives in all such questions.

**SECTION – A**

(All questions are compulsory. No internal choice is provided in this section)

**Question**

- |     |   |               |                    |                    |
|-----|---|---------------|--------------------|--------------------|
| 1.  | The value of the base in the binary system is :   |               |                    | 1                  |
|     | (a) 2   | (b) 8         | (c) 10             | (d) 1              |
| 2.  | $\log 6 + \log 5$ is expressed as:  |               |                    |                    |
|     | (a) $\log 11$   | (b) $\log 30$ | (c) $\log (5 - 6)$ | (d) $\log (6 - 5)$ |
| 3.  | The average of first five multiples of 3 is :   |               |                    |                    |
|     | (a) 3   | (b) 12        | (c) 9              | (d) 15             |
| 4.  | Today is Monday, then which day will be after 61 days?  |               |                    |                    |
|     | (a) Sunday  | (b) Wednesday | (c) Saturday       | (d) Tuesday        |
| 5.  | A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work?   |               |                    |                    |
|     | (a) 5 days  | (b) 6 days    | (c) 8 days         | (d) 9 days         |
| 6.  | If numerically surface area and volume of a sphere are equal, then radius of the sphere is:   |               |                    |                    |
|     | (a) 5 units   | (b) 3 units   | (c) 6 units        | (d) 10 units       |
| 7.  | Number of proper subsets of a set containing 4 element is :   |               |                    |                    |
|     | (a) 20  | (b) 16        | (c) 15             | (d) 9              |
| 8.  | In a class of 80 students, 39 students play football and 45 students play cricket and 15 students play both the games. Then the number of students who play neither of the games is : |               |                    |                    |
|     | (a) 11  | (b) 14        | (c) 16             | (d) 18             |
| 9.  | If $A = \{a, b\}$ and $B = \{x, y, z\}$ , then number of relations from B to A is   |               |                    |                    |
|     | (a) 8   | (b) 16        | (c) 32             | (d) 64             |
| 10. | Given $R = \{(x, y) : y = x - 3\}$ , then which ordered pair belongs to R?  |               |                    |                    |
|     | (a) (1,4)   | (b) (0,3)     | (c) (5,2)          | (d) (-4,1)         |
| 11. | If 9 times the 9 <sup>th</sup> term of an A.P is equal to 13 times the 13 term, then 22 <sup>nd</sup> term of the A.P is :  |               |                    |                    |
|     | (a) 0   | (b) 22        | (c) 220            | (d) 198            |

12. The product of 5 terms of G.P where 3<sup>rd</sup> term is 2 is : 1  
 (a) 25 (b) 32 (c) 9 (d) 243
13. The number of 3 digit odd numbers when repetition of digits is allowed is : 1  
 (a) 450 (b) 360 (c) 400 (d) 420
14. The number of permutations of the letters of the word 'INDIA' is : 1  
 (a) 50 (b) 60 (c) 80 (d) 120
15. Out of 5 men and 2 women a committee of 3 persons is to be formed so as to include at least one woman. The number of ways in which it can be done is : 1  
 (a) 10 (b) 25 (c) 35 (d) 45
16. If A be a finite set containing 3 elements, then the number of functions from A to A is : 1  
 (a) 512 (b) 511 (c) 27 (d) 26
17. If  $f(x) = px + q$ , where p and q are integers,  $f(-1) = 1$ , and  $f(2) = 13$ , then p and q are : 1  
 (a) 4,5 (b) -4,5 (c) -4,-5 (d) 4, -5
18. If  $y = 3x^2 + 2$ , then  $\frac{dy}{dx}$  at  $x = 1$  is : 1  
 (a) 7 (b) -6 (c) 6 (d) 0

**For questions 19 and 20, two statements are given – one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:**

- (i) Both A and R are true and R is the correct explanation of the Assertion.  
 (ii) Both A and R are true but R is not the correct explanation of the Assertion.  
 (iii) A is true but R is false.  
 (iv) A is false but R is true.

19. **Assertion (A):** The set X has five element and total number of subsets of X is 32. 1  
**Reason (R):** Every set has only one improper subset.  
 (a) (i) (b) (ii) (c) (iii) (d) (iv)
20. **Assertion (A):** Odd number in the series 0,6,24,61,120,210, ...is 24. 1  
**Reason (R):** The series is formed by the formula  $a_n = n^3 - n$ .  
 (a) (i) (b) (ii) (c) (iii) (d) (iv)

### **SECTION - B**

(All questions are compulsory. In case of internal choice, attempt anyone questions only)

21. If  $A = \{1,2,3\}$ , and  $B = \{3,4\}$  and  $C = \{1,3,5\}$ , then find  $A \times (B \cap C)$ . 2
22. In how many ways a committee of 4 members be selected from 5 men and 4 women? 2  
**OR**  
 In how many ways a group of 11 boys can be divided into two groups of 6 and 5 boys each.
23. (i) In a certain language if "INDIA" is coded as "KMFHC", how "AMERICA" is coded? 2  
 (ii) If "RAHUL" is coded as 22 – 5 – 12 – 25 – 16, then how will you code "VIRAT" ?
24. Evaluate:-  $\lim_{x \rightarrow 1} \frac{x^{15} - 1}{x^{10} - 1}$  2

**OR**

Find n, if  $\lim_{x \rightarrow 2} \frac{x^n - 2^n}{x - 2} = 80$

25. Find the derivatives of the function; 2  
 $y = (x+1)(x+2)$

### **SECTION – C**

(All questions are compulsory. In case of internal choice, attempt anyone questions only)

26. A and B together can build a wall in 30 days. If A is twice as good a workman as B, in how many days will A alone finish the work? 3
27. If the first term and n<sup>th</sup> terms of a GP are a and b respectively, and if P is the product of first n terms, prove that,  $P^2 = (ab)^n$  3
28. In a cricket tournament 16 school teams participated. A sum of Rs 8000 is to be awarded among the teams as prize money. If the last placed team is awarded Rs 275 in prize 3



money and the award increases by the same amount for successive finishing places, how much amount will the first place team receive?

**OR**

Find the number of ancestors i.e. parents, grandparents, great-grandparents and so on, that a person has during the ten generations preceding his own.

29. How many words can be made from the letters in the word MONDAY assuming that no letter is repeated, if, 3
- (a) 4 letters are used at a time?
  - (b) All letters are used at a time?
  - (c) All letters are used but the first letter is vowel?

**OR**

Find the number of ways of arranging the letters of the word "GARDEN" such that the vowels remaining in alphabetical order.

30. In a family there are 6 persons A, B, C, D, E and F. They are Entrepreneur, Lawyer, Teacher, Manager, Doctor and Engineer. The doctor is the grandfather of F, who is an Entrepreneur. The Engineer D is married to A. C is the Manager and married to Lawyer. 3

B is the mother of E and F. There are two married couples in the family.

- i) What is the profession of B?
- ii) What is the profession of E?
- iii) How A is related to E?

31. If the function 3
- $$f(x) = \begin{cases} 3ax + b; & x > 1 \\ 11; & x = 1 \\ 5ax - 2b; & x < 1 \end{cases}$$

is continuous at  $x = 1$ , then find the value of a and b.

### **SECTION – D**

(All questions are compulsory. In case of internal choice, attempt anyone questions only)

32. There are 200 individuals with a skin disorder, 120 had been exposed to the chemical  $C_1$ , 50 to the chemical  $C_2$  and 30 to both the chemicals  $C_1$  and  $C_2$ . Find the number of individuals exposed to: 5
- (i) Chemical  $C_1$  but not chemical  $C_2$ .
  - (ii) Chemical  $C_2$  but not chemical  $C_1$
  - (iii) Chemical  $C_1$  or chemical  $C_2$

**OR**

In a survey of 60 people, it was found that 21 people liked product P, 26 liked product Q and 29 liked product R. If 14 people liked products P and Q, 12 people liked product liked product R and P, 14 people liked product Q and R and 8 people liked all the three products, find;

- (i) How many people liked product R only?
  - (ii) How many people liked at least one of the three products?
  - (iii) How many people did not like any of the three products?
33. Find the sum of first n terms of the series  $0.6+0.66+0.666+\dots$  5

**OR**

Find the sum of first n terms of the series  $5+55+555+\dots$

34. Find the value of n so that  $\frac{a^{n+1}+b^{n+1}}{a^n+b^n}$  may be the geometric mean between a and b. 5
35. Find the number of signals which can be given with five flags of different colours hoisted one above the other, by using any number of flags. 5

## SECTION – E

(All questions are compulsory. In case of internal choice, attempt anyone questions only)

### CASE STUDY :

36. Logarithm of a positive real number  $n$  has two parts:

(i) Characteristic (ii) Mantissa

(i) Characteristic:- It is an integral part of  $\log n$  which may be negative, zero or positive.

If  $n$  is greater than or equal to 1, then, characteristic = number of digits to the left of decimal - 1.

If  $n$  is less than 1, then, characteristic = -( number of 0's just after the decimal + 1)

(ii) Mantissa:- It is positive fractional part of  $\log n$ . It is same for same significant figure in the same order and does not depend on the position of the decimal point.

Based on the above information, answer the following questions:-

(a) If  $\log 2.378 = 0.3762$  then  $\log 237.8 = ?$

1

(b) If  $\log 0.0004598 = \bar{4}.6626$ ; then what is the value of  $\log 45.98$ ??

1

(c) If  $\log 712.5 = 2.8528$  and  $\log x = \bar{3}.8528$ : then find  $x$

2

**OR**

If  $\log 0.0009236 = \bar{4}.9653$  and  $\log x = 4.9653$ , then what is the value of  $x$ ?

2

37. Let  $A$  and  $B$  be any two non empty sets and  $R$  be a relation from  $A$  to  $B$ , then inverse of relation  $R$  denoted by  $R^{-1}$  is a relation from  $B$  to  $A$ .

Also,  $R^{-1} = \{(b, a) : (a, b) \in R\}$

Clearly,  $(a, b) \in R \Leftrightarrow (b, a) \in R^{-1}$

If  $A = \{2, 3, 4, 5\}$ ,  $B = \{3, 6, 7, 10\}$  and a relation  $R$  from  $A$  to  $B$  is defined as

$R = \{(x, y) : x \text{ divides } y, x \in A, y \in B\}$

Based on the above information, answer the following questions:-

(i) Write the ordered pairs of  $R$

1

(ii) Write the ordered pairs of  $R^{-1}$

1

(iii) What is the domain of  $R^{-1}$

2

**OR**

Write the range of  $R^{-1}$

2

38. Let  $f(x)$  be a real function, defined as

$$f(x) = \begin{cases} \frac{\log(1+ax) - \log(1-bx)}{x} & ; x < 0 \\ 5 & ; x = 0 \\ \frac{\sqrt{1+bx} - 1}{x} & ; x > 0 \end{cases}$$

Based on the above information, answer the following questions :

(i) Find the value  $\lim_{x \rightarrow 0^+} f(x)$

1

(ii) Find the value of  $\lim_{x \rightarrow 0^-} f(x)$

1

(iii) If  $\lim_{x \rightarrow 0^+} f(x) = \lim_{x \rightarrow 0^-} f(x)$ , then find the relation between  $a$  and  $b$ .

2

**OR**

If  $f(x)$  is continuous at  $x = 0$ , then find the values of  $a$  and  $b$ .

2

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**DAV INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION – 2023-24**

**Class: XI**

**Subject: BANKING**

**Maximum Marks: 60**

**Time: 3 HRS**

**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, candidate has to answer (6+11) 17 questions in the allotted (Maximum) time of 3 hrs.
5. All questions of a particular section must be attempted in the correct order
6. Section A- Objective type questions (30 marks)
7. Section B- Subjective type questions (30 marks)

**SECTION – A (Objective Type Questions)**

**Q 1 Answer any 4 out of the given 6 questions on Employability Skills 1x4**

- |      |  |   |
|------|--|---|
| i)   | Which of the following method is used to receive information from the senders? | 1 |
|      | a) Listening   |   |
|      | b) Speaking  |   |
|      | c) Telling   |   |
|      | d) writing   |   |
| ii)  | What makes you complete your work or studies without others cheering you?      | 1 |
|      | a) Self confidence   |   |
|      | b) Communication   |   |
|      | c) Self motivation   |   |
|      | d) Self esteem   |   |
| iii) | Which menu option has the commands Save, Print and close?                      | 1 |
|      | a) Insert  |   |
|      | b) File  |   |
|      | c) Tools   |   |
|      | d) Format  |   |
| iv)  | What does an upright (straight) body posture convey or show?                   | 1 |
|      | a) Shyness   |   |
|      | b) Fear  |   |
|      | c) Confidence  |   |
|      | d) Intelligence  |   |
| v)   | Which of the following options are word processor?                             | 1 |
|      | a) Google Docs   |   |
|      | b) Libre Office writer   |   |
|      | c) Microsoft Word  |   |
|      | d) All of the above  |   |
| vi)  | Which shortcut key is used to create a new document?                           | 1 |
|      | a) Ctrl+c  |   |
|      | b) Ctrl+n  |   |
|      | c) Ctrl +m   |   |
|      | d) Ctrl +d   |   |

**Q 2 Answer any 05 questions out of the given 7 questions 1x5**

- |    |  |   |
|----|--|---|
| i) | An Investment Bank is a Bank ----  | 1 |
|    | a) Which invests money in another bank   |   |
|    | b) Which collects investments from public                                      |   |
|    | c) An intermediary which performs a variety of financial services to corporate |   |
|    | d) None of the above   |   |

ii)	Which is not a Value Added services provided by the bank---	1
	a) Safe Deposit Locker	
	b) Depository Services	
	c) Banc Assurance Products	
	d) Mutual Funds	
iii)	ECS stands for -----.	
		1
iv)	What is the full form of CMS?	1
v)	Banking is defined in	1
	a) RBI ACT	
	b) Banking Regulation Act	
	c) Government of India Act	
	d) Companies Act	
vi)	PPF stands for -----	1
vii)	NBFC stands for -----	1
	a) Non Banking Financial Companies	
	b) Net Banking Financial Companies	
	c) Net Banking Financial Corporations	
	d) None of the above	
<b>Q 3</b>	<b>Answer any 06 questions out of the given 07 questions</b>	<b>1x6</b>
i)	LAF stands for -----.	1
ii)	Penalty for breaking a fixed deposit is normally -----%.	1
iii)	What is the full form of ICICI Bank?	1
iv)	Interest on savings bank accounts is calculated on -----closing balance.	1
v)	Banker Customer relationships starts when -----	1
	a) A Customer opens an account	
	b) A Customer becomes a relative of a Bank	
	c) The Banker and Customer becomes friend.	
	d) None of the above.	
vi)	What is the relationship of the Bank hires out with the safe deposit locker?	1
	a) Debtor	
	b) Creditor	
	c) Agent	
	d) Lessor	
vii)	CTS stands for -----	1
	a) Cash Transaction System	
	b) Cheque Transaction System	
	c) Cheque Truncation System	
	d) None of the above	
<b>Q 4</b>	<b>Answer any 05 questions out of the given 06 questions</b>	<b>1x5</b>
i)	Name any two foreign banks	1
ii)	What is the full form of TPPs	1
iii)	-----keeps an eye on the overall payment system.	1
iv)	CDD Stands for-----	1
v)	Which is not a Private Sector Banks?	1
	a) Development Credit Bank	
	b) Karnataka Bank	
	c) South India Bank	
	d) State Bank of Saurashtra	

vi)	KYC Consist of -----	1
	a) Customer Identification	
	b) Customer Due Diligence	
	c) Customer Acceptance	
	d) All of the above	

**Q 5 Answer any 05 questions out of the given 06 questions 1x5**

i)	CRR stands for _____	1
ii)	State any one difference between cash book and Pass book.	1
iii)	Which of the following is not a function of Commercial Bank?	1
	a) Providing project finance settling of payments on behalf of the customers	
	b) Deciding policy rates like CRR, SLR and Repo rate	
	c) Issuing credit/debit/ATM cards	
	d) None of the above	
iv)	Banking services provided to a common man is known as -----.	1
v)	IEC stands for _____.	1
vi)	When a joint account is operated by any one of the holder independently mode of operation of the account is	1
	a) Jointly	
	b) Either or Survivor	
	c) Former or Survivor	
	d) Latter or Survivor	

**Q 6 Answer any 05 questions out of the given 06 questions 1x5**

i)	Write any two Payment Banks.	1
ii)	Banks give guarantee on behalf of their _____.	1
iii)	Which was the objectives behind nationalization?	1
	a) To break the ownership and control of banks by a few business families.	
	b) To prevent the concentration of wealth and economic power.	
	c) To mobilize savings from masses from all parts of the country.	
	d) All of the above.	
iv)	Bank fixed deposits are also known as _____.	1
v)	When was 'Jan Dhan Yojana' started in India?	1
vi)	When was the Imperial Bank of India became the State Bank of India?	1

**SECTION B (SUBJECTIVE TYPE QUESTIONS)**

**Answer any 03 questions out of the given 05 questions on Employability skills. 2x3**

**Answer each questions in 20-30 words**

<b>Q 7</b>	State any four factors affecting perspective in communication	2
<b>Q 8</b>	Write the short cut key of Paste and Print.	2
<b>Q 9</b>	Write the steps to save a new document.	2
<b>Q 10</b>	State the different types of non-verbal communication.	2
<b>Q 11</b>	Write a short note on anti money laundering.	2

**Answer any 03 questions out of the given 05 questions. 2x3**

**Answer each questions in 20-30 words**

<b>Q 12</b>	Which is the apex bank of Regional Rural Banks? Write any one important role of this apex bank.	2
<b>Q 13</b>	State any two fees based products.	2

- |             |   |   |
|-------------|---|---|
| <b>Q 14</b> | State any two basic functions of a Banker.  | 2 |
| <b>Q 15</b> | State any two objectives of prevention of Money laundering system.  | 2 |
| <b>Q 16</b> | Which is the apex bank in India in the field of finance for Exports and Imports?<br>Write any one important function of this apex bank. | 2 |

**Answer any 02 questions out of the given 03 questions.**

**3x2**

**Answer each questions in 30-50 words**

- |             |   |   |
|-------------|---|---|
| <b>Q 17</b> | Discuss any three initiatives by RBI in improving payment mechanisms. | 3 |
| <b>Q 18</b> | Distinguish between current account and savings account.              | 3 |
| <b>Q 19</b> | Write a short note on cooperative banks in the society.               | 3 |

**Answer any 03 questions out of the given 05 questions.**

**4x3**

**Answer each questions in 50-80 words**

- |             |   |   |
|-------------|---|---|
| <b>Q 20</b> | Discuss four important functions of Reserve Bank of India.                            | 4 |
| <b>Q 21</b> | Distinguish between Retail Banking and Wholesale Banking.                             | 4 |
| <b>Q 22</b> | Write a short note on Public Sector Banks in India.                                   | 4 |
| <b>Q 23</b> | What do you mean by Recurring Deposits? State three advantages of Recurring Deposits. | 4 |
| <b>Q 24</b> | Discuss any four differences between NEFT and RTGS.                                   | 4 |

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF-YEARLY EXAMINATION**  
**SESSION: 2023 – 2024**

**CLASS: XI**

**MAXIMUM MARKS: 70**

**SUBJECT: BIOLOGY**

**TIME: 3 HOURS**

*The question paper has 5 sections and 33 questions. All questions are compulsory, Section A has 16 questions of 1 mark each; Section B has 5 questions of 2 marks each; Section C has 7 questions of 3 marks each; Section D has 2 case-based questions of 4 marks each and Section E has 3 questions of 5 marks each.*

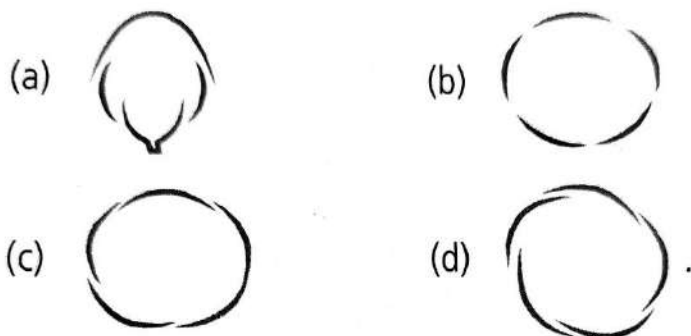
**Section A**

1. The hierarchical arrangement of taxonomic categories in descending order is 1  
 (a) Kingdom, Phylum, Class, Order, Family, Genus, Species  
 (b) Kingdom, Division, Phylum, Order, Family, Genus, Species  
 (c) Kingdom, Class, Phylum, Order, Family, Genus  
 (d) Division, Kingdom, Class, Phylum, Order, Family, Genus, Species.
2. Which of the following statements is incorrect? 1  
 (a) Prions consist of abnormally folded proteins.  
 (b) Viroids lack a protein coat.  
 (c) Viruses are obligate parasites.  
 (d) Infective constituent in viruses is the protein coat.
3. In pteridophyte, the sporophyte consists of leaf-like appendages called 1  
 (a) Megaphylls (b) Sporophyll (c) Thalli (d) Sporangia
4. Match the following organisms with respective characteristics 1

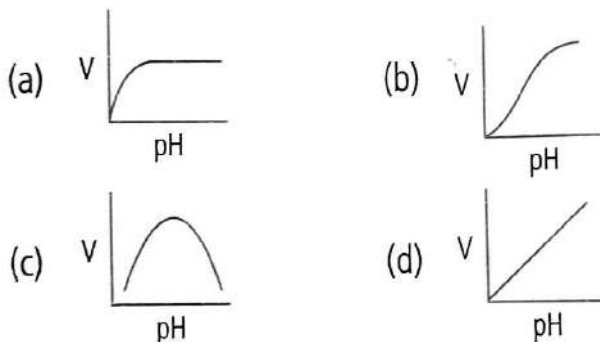
A	<i>Pila</i>	i	Flame cells
B	<i>Bombyx</i>	ii	Comb plates
C	<i>Pleurobrachia</i>	iii	Radula
D	<i>Taenia</i>	iv	Malpighian tubules

Select the correct option from the following.

- |     |          |          |          |          |  |
|-----|----------|----------|----------|----------|--|
|     | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> |  |
| (a) | iii      | ii       | iv       | i        |  |
| (b) | iii      | ii       | i        | iv       |  |
| (c) | iii      | iv       | ii       | i        |  |
| (d) | i        | iv       | iii      | ii       |  |
5. Aestivation of petals in the flower of cotton is correctly shown in 1



6. Which of the following statements is not correct? 1
- (a) Lysosomes are formed by the process of packaging in the endoplasmic reticulum.  
 (b) Lysosomes have numerous hydrolytic enzymes.  
 (c) The hydrolytic enzymes of lysosomes are active under acidic pH.  
 (d) Lysosomes are membrane-bound structures
7. Nucleotides are building blocks of nucleic acids. Each nucleotide is a composite molecule formed by 1
- a) Base-sugar-phosphate b) Base-sugar-OH c) Sugar-amino acids d) None of these.
8. Which of the given graphs shows the effect of pH on the velocity of a typical enzymatic reaction(V)? 1



9. An organism has a diploid chromosome number of 46. How many chromatids will be present in each cell at the end of meiosis II? 1
- (a) 46 chromatids (b) 92 chromatids (c) 23 chromatids (d) 69 chromatids
10. Tidal volume and expiratory reserve volume of an athlete is 500 mL and 1000 mL respectively. What will be his expiratory capacity if the residual volume is 1200 mL? 1
- (a) 2700 mL (b) 1500 mL (c) 1700 mL (d) 2200 mL
11. What is the main action of the diaphragm during inspiration? 1
- (a) It contracts and moves upward. (b) It relaxes and moves upward.  
 (c) It contracts and moves downward. (d) It relaxes and moves downward.
12. What would be the heart rate of a person if the cardiac output is 6 L, blood volume in the ventricles at the end of diastole is 100 mL and at the end of ventricular systole is 50 mL? 1
- (a) 120 beats per minute (b) 50 beats per minute  
 (c) 75 beats per minute (d) 100 beats per minute

In the following questions, a statement of Assertion (A) is given and followed by corresponding statement of Reason (R). Of the statements, mark the correct answer as

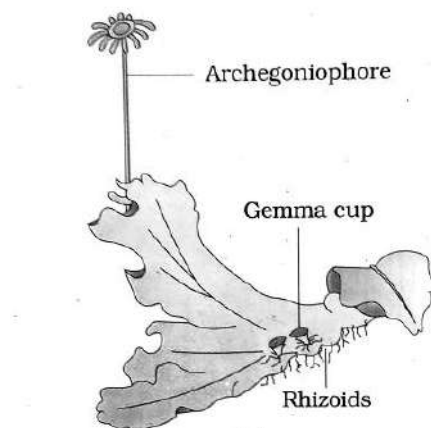
- a) Both A and R are true and R is the correct explanation of the A  
 (b) Both A and R are true, but R is not the correct explanation of the A  
 (c) A is true, but R is false  
 (d) A is false, but R is true
13. **Assertion:** Platyhelminthes are generally hermaphrodites. 1  
**Reason:** In Platyhelminthes, fertilisation is internal.



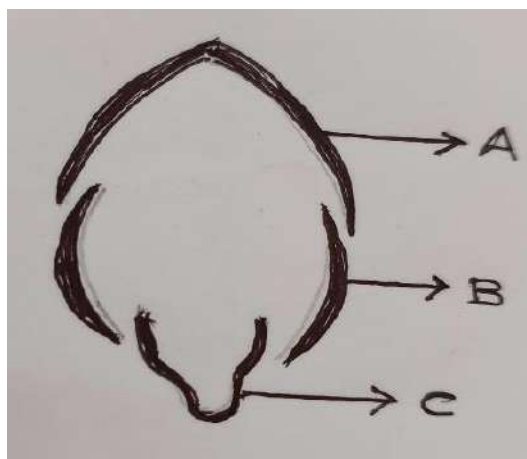
14. **Assertion:** G1 phase is the interval between mitosis and initiation of DNA replication. 1  
**Reason:** The cell is metabolically inactive during G1 phase.
15. **Assertion:** At the tissue level, 70 percent of CO<sub>2</sub>, formed from catabolism is trapped as bicarbonate in the RBCs. 1  
**Reason:** At tissue level, carbonic anhydrase in RBCs facilitates the formation of CO<sub>2</sub>, and H<sub>2</sub>O from bicarbonate.
16. **Assertion:** SA node produces excitatory impulses in heart. 1  
**Reason:** SA node is self-excitatory.

### Section B

17. Study the following picture and answer the following questions. 2



- (a) Identify the organism?  
 (b) What is Gemma cup? Mention its role?
18. Identify (Name) the following aestivation and label A, B and C 2



19. Mention one function of each of the following proteins 2  
 (a) Collagen  
 (b) Trypsin  
 (c) Insulin  
 (d) Gamma globulin

**OR**

A particular property of amino acids is the ionizable nature of –NH<sub>3</sub> and –COOH groups. Show the structure of amino acid in a solution of different pH.

20. What happens to homologous chromosomes during 2  
 (a) Zygotene  
 (b) Pachytene  
 (c) Diplotene  
 (d) Metaphase I
21. Define partial pressure. How does it help in gaseous exchange during respiration? 2

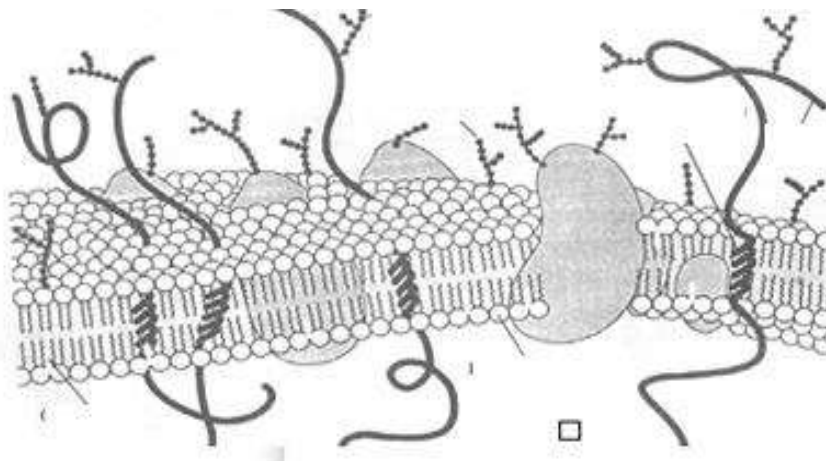
### Section C

22. Identify a, b, c, d, e, f from following table 3

common name	Biological name	genus	family	order	class	Phylum/division
mango	b	<i>Mangifera</i>	d	e	Dicotyledonae	Angiospermae
a	<i>Triticum aestivum</i>	c	Poaceae	Poales	f	Angiospermae

23. In which group are the following found: Conidia, Zygosporangium, and Ascospore. 3
24. Explain briefly the following terms: 3  
 (a) Protonema  
 (b) Sporophyll  
 (c) Isogamy
25. Give the genus name of the following 3  
 (a) A limbless amphibia  
 (b) A cold-blooded animal  
 (c) A warm-blooded animal  
 (d) An animal possessing dry and cornified skin  
 (e) An animal having canal system and spicules  
 (f) An animal with Cnidoblasts

26. 3



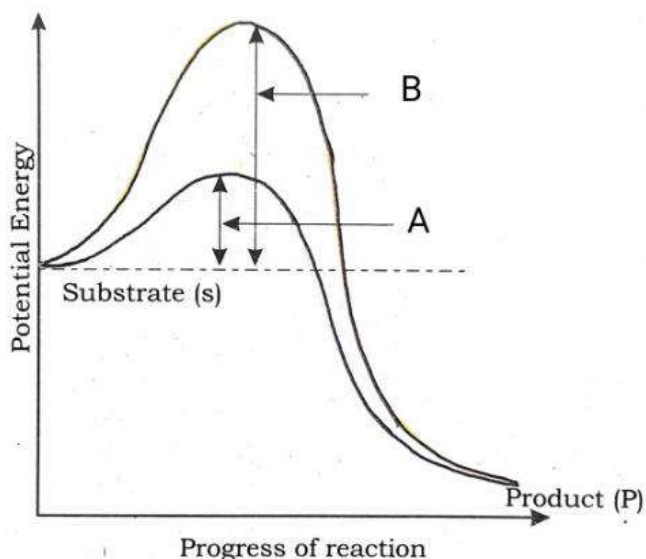
Study the given pictures and answer the following questions

- (a) State the main chemical composition of the given diagram.  
 (b) Differentiate between active and passive transport.

**OR**

Explain the transport of following molecules across the membrane

- (a) Neutral solutes  
 (b) Polar molecules  
 (c)  $\text{Na}^+$  /  $\text{K}^+$  ion



- (a) Identify A and B.  
 (b) What do you mean by transition state?  
 (c) How enzymes help in product formation from that transition state?
28. When an injury is caused to a blood vessel bleeding starts which is stopped by a process called blood clotting or blood coagulation. Describe the process of blood clotting through a flow chart. 3

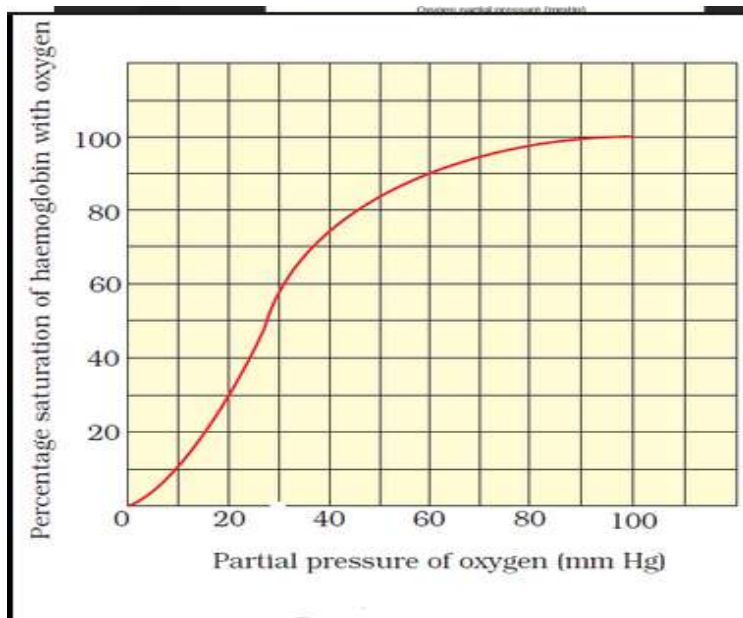
### Section D

**Question number 29 & 30 are case based questions. Each questions has three sub parts with internal choice in one sub part.**

29. Algae are chlorophyll-bearing, simple, thalloid, autotrophic and largely aquatic (both fresh water and marine) organisms. They occur in a variety of other habitats: moist stones, soils and wood. Some of them also occur in association with fungi (lichen) and animals (e.g., on sloth bear). The form and size of algae is highly variable, ranging from colonial forms like *Volvox* and the filamentous forms like *Ulothrix* and *Spirogyra*. The algae reproduce by vegetative, asexual and sexual methods. Vegetative reproduction is by fragmentation. Asexual reproduction is by the production of different types of spores, the most common being the zoospores. Sexual reproduction takes place through fusion of two gametes. The algae are divided into three main classes: Chlorophyceae, Phaeophyceae and Rhodophyceae. 4
- (a) Name the organism which shows mutual association with algae.  
 (b) Name the pigments which determine the colour of the brown algae.  
 (c) Write two usefulness of algae.

OR

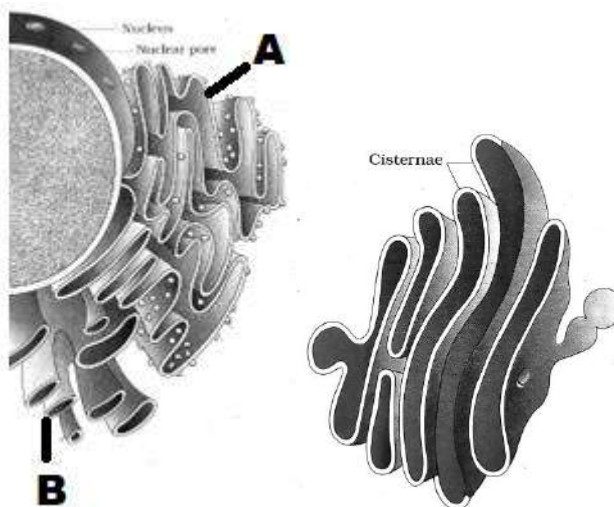
- (c) Mention the stored food in Rhodophyceae and Chlorophyceae.



- (a) Identify the curve and name it.  
 (b) How many oxygen molecules does a haemoglobin molecule can carry?  
 Or  
 (b) How much oxygen is delivered to the tissues per hundred ml of oxygenated blood?  
 (c) Mention four factors responsible for formation of oxyhaemoglobin in alveoli.

### Section E

31. Study the given diagram and answer the following questions.



- (a) Identify A and B.  
 (b) State one structural and one functional difference between A and B.  
 (c) Why the golgi apparatus remains in close association with the endoplasmic reticulum.

**OR**

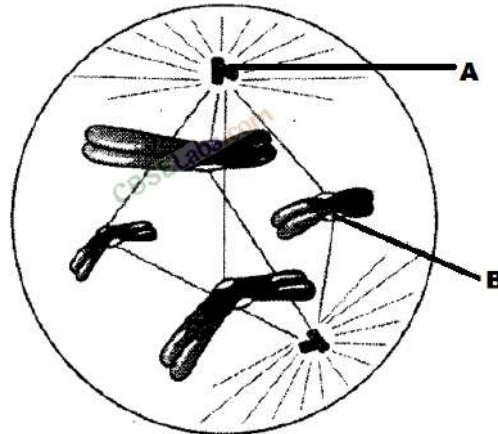
Write the functions of the following terms-

- (a) Nuclear pores  
 (b) Cytoskeleton  
 (c) Lysosome  
 (d) Thylakoid  
 (e) Contractile vacuole

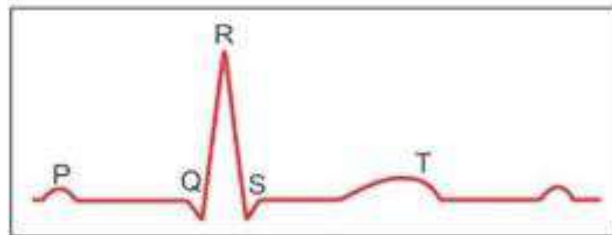
32. a) Define crossing over. When it is observed? Mention the significance of the process? 5  
 b) Mention the difference in cytokinesis between animal cell and Plant cell.  
 c) Mention two significance of meiosis.

**OR**

Observe the figure carefully and answer the following



- (a) Identify A and the protein covering the B.  
 (b) A cell has  $2n=32$  chromosomes. It undergoes mitotic division. What will be the chromosome number during metaphase? What would be the DNA content in metaphase?  
 (c) If a tissue has at a given time 1024 cells, how many cycles of mitosis had the original parental single cell undergone?
33. Study the given diagram and answer the following questions 5



- (a) Explain heart sound.  
 (b) What is the significance of P, QRS and T in the graphical representation of ECG?  
 (c) What is atherosclerosis?

**OR**

Blood group	Antigens on RBCs	Antibody in Plasma	Donor groups
A	A	i	A, O
B	B	Anti-A	ii
AB	A,B	iii	A, B, AB, O
O	iv	v	vi

- (a) Find out i, ii, iii, iv,v,vi from the above table.  
 (b) Among all the blood groups which ones are considered as Universal recipient and Universal donor?

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: 2023 – 2024**

**Class: XI**  
**Subject: Business Studies (054)**

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

**General Instruction:**

- (a) This question paper contains **34** questions and contains **4** 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  | The maritime route linked the east and the west by sea and were used for the trade of spice is known as –  | 1 |
|    | (a) Land Route      (b) Silk Route      (c) Maritime Route      (d) Spice Route  |   |
| 2  | Which of the following cannot be classified as an auxiliary to trade:  | 1 |
|    | (a) Mining      (b) Insurance      (c) Warehousing      (d) Transport  |   |
| 3  | The occupation in which people work for others and get remunerated in return is :  | 1 |
|    | (a) Business      (b) Employment      (c) Profession      (d) None of these  |   |
| 4  | This removes hindrance of persons :  | 1 |
|    | (a) Trade      (b) Transportation      (c) Communication      (d) Advertising  |   |
| 5  | A partner whose association with the firm is unknown to general public is called:  | 1 |
|    | (a) Active partner      (b) Sleeping partner      (c) Nominal partner      (d) Secret partner  |   |
| 6  | In a cooperative society the principle followed is :   | 1 |
|    | (a) One share one vote      (b) One man one vote      (c) No vote      (d) Multiple vote   |   |
| 7  | Application for approval of name of a company is to be made to :   | 1 |
|    | (a) SEBI      (b) Registrar of Companies   |   |
|    | (c) Government of India      (d) State Government in which the company is registered   |   |
| 8  | The partnership firm formed to complete a single Venture is called –   | 1 |
|    | (a) Particular Partnership      (b) Fixed period partnership   |   |
|    | (c) Partnership at will      (d) Limited Partnership   |   |
| 9  | Five years ago two friends Ankur and Rahul had promoted E-Company called ‘Next Door Friend’ with an objectives to provide help to people find the right service professionals for important activities like decorating homes, planning birthday parties, providing fitness trainers etc keeping in view the success of business they now wish to convert their company into a public company but do not wish to raise the required funds from the public by means of issue of shares and debentures. Name the document that a public company needs to file in such a case. | 1 |
|    | (a) Prospectus      (b) Statement in lieu of Prospectus  |   |
|    | (c) Memorandum of Association      (d) Article of Association  |   |
| 10 | Kapoor & Sons Ltd. is a well known Indian company. They extended their operations to Dubai and USA by establishing business centers there. As a policy, they donate 20% of their annual income every year for the betterment of slum areas in India. Identify the type of Company Kapoor & Sons Ltd. is –  | 1 |
|    | (a) Private Company      (b) Public Company  |   |
|    | (c) Joint Stock Company      (d) Multinational Company   |   |

- 11 Which of the following enterprises formed as a part of government and does not have separate legal entity? 1  
 (a) Public corporation (b) Government company  
 (c) Departmental undertaking (d) Public limited company
- 12 Read the following statements: Assertion and Reason. Choose one of the Correct alternatives given below. 1  
 ASSERTION (A) – Life Insurance Corporation of India is a Statutory Corporation.  
 REASON (R) - Statutory Corporation is a body corporate formed by a special Act of Parliament or by the Central or state legislature.  
 (a) Both Assertion (A) and Reason (R) are individually true and Reason (R) is the correct explanation of Assertion (A).  
 (b) Both Assertion (A) and Reason (R) are individually true but Reason (R) is not the correct explanation of Assertion (A).  
 (c) Assertion (A) is true but Reason (R) is false  
 (d) Assertion (A) is false but Reason (R) is true
- 13 A government company purchases shares in the name of : 1  
 (a) Prime minister (b) President  
 (c) Chief Justice of India (d) State Chief Minister
- 14 Which of the following can never be dishonored? 1  
 (a) Bank Draft (b) Cheque (c) Both (a) and (b) (d) None of these

**OR**

- Banker's cheque is also known as :  
 (a) Bank Draft (b) Pay order (c) Demand draft (d) None of these
- 15 Principle of Indemnity is not applicable on: 1  
 (a) Marine Insurance (b) Fire Insurance (c) Life Insurance (d) None of these
- 16 Which of the following is not a feature of Services? 1  
 (a) Inconsistent (b) Involvement (c) Tangible (d) Inseparability
- 17 The insured gets loss amount or the policy amount whichever is less. This is related to: 1  
 (a) Principle of utmost good faith (b) Principle of causa proxima  
 (c) Principle of indemnity (d) Principle of contribution
- 18 The payment mechanism typical to e- business. 1  
 (a) Cash on delivery (b) Credit and Debit card  
 (c) Cheque (d) E- cash
- 19 OLX is the example of which type of e-business? 1  
 (a) B2B (b) B2C (c) C2C (d) Intra B
- 20 Sending quotations of supplying raw material by one businessman to another is called: 1  
 (a) B2B (b) B2C (c) C2C (d) Intra B
- 21 Distinguish between Business and profession on the following basis: 3  
 (a) Transfer of interest (b) Code of conduct (c) Reward

**OR**

- Explain the following with one example:  
 (a) Synthetical industry (b) Analytical industry (c) Genetic industry
- 22 Vishnu over past few years has been running a sole proprietorship form of business. His business is flourishing and he is unable to maintain it all alone. He requires more capital investment to meet the requirement of his business at the same time he also wants someone should share his work responsibilities and also risks. 3  
 (a) Suggest the type of business he can switch to.  
 (b) Explain the two features of that business which he will choose.

- 23 State any three situations wherein Government company is most suitable form of public sector organization. 3
- 24 Identify the various Postal Services given below: 3
- A postal certificate is issued by the post office as an evidence of posting a letter.
  - A postal facility where the mail reaches the addressee as fast as possible.
  - Involves delivery of letters, documents and small parcels from one place to another through private operations.
- 25 Pooja after doing her graduation degree started a burger store in her home town, under the name of 'Burger India.' Encouraged with the success of her store, she started two more burger stores in different area of her hometown. She earned good profit margin. After sometimes, the staff of the burger stores starts giving less attention to the customers. Because of which, Pooja started incurring huge losses and her business failed. 4
- Identify and explain the main cause behind the business failure of Pooja.
  - Explain any two causes of risk associated with Pooja's business other than identified in part (a)
- 26 Name the following: 4
- A person who lends his name and goodwill for the benefits of a partnership firm.
  - A person who contributes capital but does not take part in management of business.
  - A document containing terms and conditions of partnership.
  - The clause of Memorandum which defines powers and limitations of a company.
- 27 This kind of business is governed by Hindu Succession Act. 4
- Identify the form of business.
  - Explain any three features of this form of business.
- 28 This enterprise is most suitable when national security is concerned. 4
- Identify the type of public sector mentioned above.
  - State any three features of that public sector.
- OR**
- LIC and Air India are the examples of this form of enterprise.
- Identify the type of public sector mentioned above.
  - Explain any three features of that enterprise.
- 29 Dhanwan Bank is a popular private sector bank offering varied services to its customers. It offers many types of bank accounts options to its customers. Farhan being a businessman has chosen the type of account in which 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 mother has opened a type of account where she can conveniently deposit the money whatever she saves. These accounts provide cheque facility and offer lot of flexibility for deposits and withdrawal of funds from the account. Farhan's younger brother Sohail has opened a special kind of account wherein he will deposit Rs 1,000 every month for next two Years. 4
- In the context of the above case.
- By quoting the lines from the above paragraph, identify the various types of bank accounts being used by Farhan and his family members.
  - Describe briefly any other account, offered by a bank but not mentioned in the above paragraph.
- 30 State the various benefits of e-Commerce in the view point of both business organization and consumer. 4

**OR**

Distinguish between e-business and traditional business (any four points).



- 31 Define Joint Stock Company. 6  
State the following features of Joint Stock Company:  
(a) Perpetual Succession (b) Artificial Person (c) Registration  
(d) Common seal (e) Liability  
OR  
Explain the various types of cooperative societies.
- 32 Sony Ltd. is a leader in electronics. It is registered as a company and has its business 6  
operations in many countries of the world. It's headquarter is in Japan (Tokyo). To manage  
its branches in different countries, the company provides training to the employees and  
hires professional managers. It always uses the latest technology to remain leader in  
electronics.  
(a) Name the type of enterprise mentioned in the above case.  
(b) State any three benefits and two limitations of such enterprise.
- 33 Define Marine Insurance 6  
Explain the types of Marine Insurance.  
OR  
Explain the following basic principles of General Insurance:  
(a) Principle of Utmost Good Faith (b) Principle of Insurable Interest  
(c) Principle of Causa Proxima (d) Principle of Subrogation
- 34 Explain the following: 6  
(a) B2B Commerce (b) C2C commerce  
(c) B2C commerce (d) Intra B- Commerce

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**D. A. V INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: 2023 – 2024**

**Class: XI**

**Maximum Marks: 70**

**Subject: Chemistry**

**Time: 3 Hours**

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**General Instructions:**

**Read the following instructions carefully.**

- (a) There are 33 questions in this question paper with internal choice.
- (b) SECTION A consists of 16 multiple-choice questions carrying 1 mark each.
- (c) SECTION B consists of 5 short answer questions carrying 2 marks each.
- (d) SECTION C consists of 7 short answer questions carrying 3 marks each.
- (e) SECTION D consists of 2 case-based questions carrying 4 marks each.
- (f) SECTION E consists of 3 long answer questions carrying 5 marks each.
- (g) All questions are compulsory.
- (h) Use of log tables and calculators is not allowed.

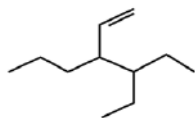
**SECTION A**

**The following questions are multiple-choice questions with one correct answer. Each question carries 1 mark. There is no internal choice in this section.**

1. Given the numbers: 161 cm, 0.161 cm and 0.0161 cm. The number of significant figures for these three numbers are: 1  
(a) 3,4,5  
(b) 3,3,3  
(c) 3,3,4  
(d) 3,4,4
2. Number of atoms in 558.6 g Fe (Molar mass Fe = 55.86 g mol<sup>-1</sup>) is 1  
(a) twice that in 60 g carbon  
(b)  $6.023 \times 10^{22}$   
(c) half that of 8g He  
(d)  $558.6 \times 6.023 \times 10^{23}$
3. 1 g of Mg is burnt in a closed vessel containing 0.5 g of O<sub>2</sub>. Which of the following statements is correct? 1  
(a) O<sub>2</sub> is the limiting reagent and Mg is in excess by 0.25g  
(b) Mg is the limiting reagent and O<sub>2</sub> is in excess by 0.5g  
(c) Mg is the limiting reagent and O<sub>2</sub> is in excess by 0.25g  
(d) O<sub>2</sub> is the limiting reagent and Mg is in excess by 0.75g
4. The pair of ions having same electronic configuration is: 1  
(a) Cr<sup>+3</sup>, Fe<sup>+3</sup>  
(b) Mn<sup>+2</sup>, Fe<sup>+3</sup>  
(c) Co<sup>+3</sup>, Fe<sup>+3</sup>  
(d) Cr<sup>+3</sup>, Sc<sup>+3</sup>
5. Number of angular nodes for 4d orbital is : 1  
(a) 4  
(b) 3  
(c) 2  
(d) 1

6. The negative electron gain enthalpies of halogens follow the order: 1  
 (a)  $F > Cl > Br < I$   
 (b)  $F < Cl < Br < I$   
 (c)  $F < Cl > Br > I$   
 (d)  $F < Cl < Br < I$
7. The period number in the long form of the periodic table is equal to 1  
 (a) magnetic quantum number of any element of the period.  
 (b) atomic number of any element of the period.  
 (c) maximum Principal quantum number of any element of the period.  
 (d) maximum Azimuthal quantum number of any element of the period.
8. Which one of the following is a correct set with respect to the molecules listed below: 1  
 Hybridisation and shape  
 (a)  $BeCl_2$  :  $sp^2$ , linear  
 (b)  $BeCl_2$  :  $sp^2$ , triangular planar  
 (c)  $BCl_3$  :  $sp^2$ , triangular planar  
 (d)  $BCl_3$  :  $sp^3$ , tetrahedral
9. The molecule with maximum percentage ionic character is: 1  
 (a) HI  
 (b) HBr  
 (c) HCl  
 (d) HF
10. Which species has lone pair on central atom? 1  
 (a)  $CCl_4$   
 (b)  $CH_4$   
 (c)  $NH_4^+$   
 (d)  $H_2O$

11. 1



The correct IUPAC name of the compound is:

- (a) 4-Ethyl-3-propylhex-1-ene  
 (b) 3-Ethyl-4-ethenylheptane  
 (c) 3-Ethyl-4-propylhex-5-ene  
 (d) 3-(1-ethylpropyl)-hex-1-ene
12. In the organic compound  $CH_2=CH-CH_2-CH_2-CH_3$ , the  $CH-CH_2$  bond is formed by the 1  
 interaction of the pair of hybridized orbitals:  
 (a)  $sp-sp^2$   
 (b)  $sp-sp^3$   
 (c)  $sp^2-sp^3$   
 (d)  $sp^3-sp^3$

**Direction: In the following questions (Q. No. 13-16) given below a statement of Assertion is followed by a Reason. Use the following key to select the correct answer.**

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

**(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not 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.**

13. **Assertion (A):** Atomic mass of sodium is 23u. 1  
**Reason (R):** An atom of sodium is 23 times heavier than atom of C-12 isotope.
14. **Assertion (A):** Fine lines are observed in a spectra if an atom is placed in a magnetic field. 1  
**Reason (R):** Degenerate orbitals split in the presence of magnetic field.
15. **Assertion (A):** When transition metals ionise, the 4s-orbital electrons are removed before the 3d-orbital electrons. 1  
**Reason (R):** The energy of the 3d-orbital electron is lower than that of 4s-orbital electron.
16. **Assertion (A):** o-nitrophenol is steam volatile while p- nitrophenol is not. 1  
**Reason (R):** Intramolecular H-bonding is present in o-nitrophenol but intermolecular H-bonding is present in p-nitrophenol.

### SECTION B

**This section contains 5 questions with internal choice in one question. The following questions are very short answer type and carry 2 marks each.**

17. If the velocity of the electron in Bohr's first orbit is  $2.19 \times 10^6 \text{ ms}^{-1}$ , calculate the de Broglie wavelength associated with it. 2

OR

A golf ball has a mass of 40g and a speed of  $45 \text{ ms}^{-1}$ . If the speed can be measured within an accuracy of 2%, calculate the uncertainty in its position.

18. (a) How many sub-shells are associated with  $n=4$ ? 2  
 (b) How many electrons will be present in the sub-shells having  $m_s$  value of  $-1/2$  for  $n=4$ ?
19. Among the second period elements, the actual ionization enthalpies are in the order:  $\text{Li} < \text{B} < \text{Be} < \text{C} < \text{O} < \text{N} < \text{F} < \text{Ne}$  2  
 Explain why :  
 (a) Be has higher ionization enthalpy than B?  
 (b) O has lower ionization enthalpy than N and F?

20. Is there any change in the hybridization of B and N atoms as a result of the following reaction? 2  
 Explain.  
 $\text{BF}_3 + \text{:NH}_3 \longrightarrow \text{F}_3\text{B.NH}_3$
21. Which of the two:  $\text{O}_2\text{NCH}_2\text{CH}_2\text{O}^-$  or  $\text{CH}_3\text{CH}_2\text{O}^-$  is expected to be more stable and why? 2

### SECTION C

**This section contains 7 questions with internal choice in one question. The following questions are short answer type and carry 3 marks each.**

22. A compound contains 54.3% carbon, 9% hydrogen and 36.7% oxygen. The molecular mass of the compound is 88 u. Find the molecular formula of the compound. 3

23. If two elements can combine to form more than one compound, the masses of one element that combine with a fixed mass of the other element, are in whole number ratio. 3
- (a) Is this statement true? If yes, according to which law?
- (b) What are the limitation of the above law?
- (c) Give one example related to this law

OR

- a) State Gay Lussac's law of gaseous volume.
- b) Calculate the mass percent of the calcium, phosphorus and oxygen in calcium phosphate. [At. Mass of Ca=40 u and P=31u]
24. Arrange the following as stated: 3
- (a) Increasing order of bond dissociation energy of  $N_2$ ,  $O_2$ ,  $F_2$  and  $Cl_2$ .
- (b) Decreasing order of electropositive character of Cu, Fe and Mg.
- (c) Increasing order of metallic character of Li, K, Na and Rb.
25. (a) On the basis of VSEPR theory, explain the shape of  $ClF_3$ . 3
- (b) What type atomic orbitals can overlap to form molecular orbitals?
26. Answer the following: 3
- (a) In a hydrogen atom, electron falls from infinity to stationary state one. What is the wavelength of the radiation emitted?
- (b) The atomic number of an element X is 26. How many electrons are present in the M-shell of the element in its  $X^{3+}$  state?
27. A photon of wavelength  $4 \times 10^{-7}m$  strikes on metal surface, the work function of the metal being 2.13 eV. Calculate: 3
- (a) the energy of the photon.
- (b) the kinetic energy of the emission
- (c) the velocity of the photoelectron ( $1eV = 1.602 \times 10^{-19}J$ )
28. (a) How many sigma and pi bonds are present in  $CH_2=C=CH_2$ ? 3
- (b) Explain why alkyl groups act as electron donors when attached to a  $\pi$ -system.

#### SECTION D

**The following questions are case -based questions. Each question has an internal choice and carries 4 (1+1+2) marks each. Read the passage carefully and answer the questions that follow.**

29. The identity of a substance is defined not only by the types of atoms or ions it contains, but by the quantity of each type of atom or ion. The experimental approach required the introduction of a new unit for amount of substances, the mole, which remains indispensable in modern chemical science. The mole is an amount unit similar to familiar units like pair, dozen, gross, etc. It provides a specific measure of the number of atoms or molecules in a bulk sample of matter. A mole is defined as the amount of substance containing the same number of discrete entities (atoms, molecules, ions, etc.) as the number of atoms in a sample of pure C-12 weighing exactly 12g. One Latin connotation for the word "mole" is "large mass" or "bulk," which is consistent with its use as the name for this unit. The mole provides a link between an easily measured macroscopic property, bulk mass, and an extremely important fundamental property, number of atoms, molecules and so forth. The number of entities composing a mole has been experimentally determined to be  $6.022 \times 10^{23}$ . 4
- (a) What is the mass of oxygen gas which occupies 5.6 litres at STP?
- (b) What is the mass of one molecule of yellow phosphorus?

(c) A gas mixture contains 50% helium and 50% methane by volume. What is the percent by weight of methane in the mixture?

OR

(c) A sample of copper sulphate pentahydrate contains 8.64 g of oxygen. How many grams of Cu is present in the sample?

(Cu = 63.6 u, P = 30 u, S = 32 u)

30. In the modern periodic table, elements are arranged in order of increasing atomic numbers which are related to the electronic configuration. Depending upon the type of orbitals receiving the last electron, the elements in the periodic table have been divided into four blocks, viz, s, p, d and f. 4

The modern periodic table consists of 7 periods and 18 groups. Each period begins with the filling of a new energy shell. The seven periods (1 to 7) have 2, 8, 8, 18, 18, 32 and 32 elements respectively. The seventh period is still incomplete. To avoid the periodic table being too long, the two series of f-block elements, called lanthanoids and actinoids are placed at the bottom of the main body of the periodic table.

(a) Write the general electronic configuration of p-block elements.

(b) The element having atomic number 38 belongs to which period and which group of the periodic table?

(c) State the Mendeleev's periodic law.

In the modern periodic table, fourth period has capacity to accommodate maximum 18 elements. Explain.

OR

iii) Write the electronic configuration of the element which is just above the element with atomic number 43 in the same group. Mention the group number.

### SECTION E

**The following questions are long answer type and carry 5 marks each. All questions have an internal choice.**

31. (a) Write all the four quantum numbers of the electron in the outermost shell of rubidium (At. No. = 37) 5  
(b) Calculate the wave number for the longest wavelength transition in the Balmer series of atomic hydrogen.  
(c) 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.

OR

(a) Indicate the number of unpaired electrons in Cr (At. No. 24)

(b) The diameter of zinc atom is  $2.6 \text{ \AA}$ . Calculate the radius of zinc atom and number of atoms present in a length of 1.6 cm if the zinc atoms are arranged side by side lengthwise.

(c) What should be the ratio of velocities of  $\text{CH}_4$  and  $\text{O}_2$  molecules so that they are associated with de Broglie waves of equal wavelength?

32. (a) Arrange the bonds in order of increasing ionic character in the molecules:  $\text{N}_2$ ,  $\text{K}_2\text{O}$ ,  $\text{LiF}$ ,  $\text{SO}_2$ . 5  
(b) Predict which out of the following species is / are planar:  
 $\text{NH}_4^+$ ,  $\text{CH}_3^+$  and  $\text{SF}_4$   
(c) Compare the relative stability of the following species:  
 $\text{O}_2$ ,  $\text{O}_2^+$ ,  $\text{O}_2^-$  and  $\text{O}_2^{2-}$

OR

- (a) Why is ammonia soluble in water while phosphine is not?  
(b) Explain why  $\text{PCl}_5$  is trigonal bipyramidal whereas  $\text{IF}_5$  is square pyramidal with the help of hybridization concept.  
(c) Compare the relative stability of the following species and indicate their magnetic properties:  
 $\text{N}_2$ ,  $\text{N}_2^+$  and  $\text{N}_2^{2-}$

33. (a) Write the IUPAC name of  $\text{CH}_3\text{-CH=C(CH}_3)_2$ . 5  
(b) Arrange the following carbocations in increasing order of stability and mention the reason behind it: methyl, isopropyl, ethyl and tertbutyl.  
(c) Identify the following as nucleophiles or electrophiles:  
 $\text{H}^-$ ,  $\text{ROH}$ ,  $\text{Cl}^+$ ,  $\text{BF}_3$

OR

- (a) Give two points of differences between inductive effect and resonance effect.  
(b) Write structural formulae for compounds named as- (i) 4-Oxohexanal (ii) 5-Bromoheptanoic acid.  
(c) Name the type of organic reaction involved in the following reaction:  
 $\text{CH}_3\text{CH}_2\text{I} + \text{KOH (aq)} \rightarrow \text{CH}_3\text{CH}_2\text{OH} + \text{KI}$

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**

**Session: 2023 - 2024**

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

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

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**General Instructions:**

- This question paper contains 35 questions and 5 pages.
- All questions are compulsory, internal choices are to be marked in different sections.
- Programming language: Python
- The paper is divided into 5 Sections - A, B, C, D and E.

Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.

Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.

Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.

Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.

Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.

---

- |    |   |   |
|----|---|---|
| 1  | State True or False: "Primary Memory is the storage section of the computer which consists of the devices used to store data or instructions that will be used during the computations."  | 1 |
| 2  | The _____ software rearranges the files in the computers and cleans up the memory.<br>A) Operating System.                      B) Application Software.<br>C) Disk defragmenter.                      D) Device Driver.  | 1 |
| 3  | How many characters are same in both ASCII and ISCII encoding standard.<br>A) Last 128                                      B) First 128<br>C) First 127                                      D) Last 127   | 1 |
| 4  | The correct order of precedence of logical operators while evaluating a Boolean expression :<br>A) OR → AND → NOT                      B) OR → NOT → AND<br>C) NOT → AND → OR                      D) AND → NOT → OR  | 1 |
| 5  | What is hexadecimal equivalent of (467) <sub>8</sub><br>A) (137) <sub>16</sub> B) (D7) <sub>16</sub> C) (101100111) <sub>16</sub> D) None of the above  | 1 |
| 6  | Base of a number system is also known as<br>A) System                      B) radix                      C) Nibble                      D) Bit  | 1 |
| 7  | Read the following python snippet and answer the question<br>a=4<br>b=8<br>mean=a+b/2<br>print("average=", mean)<br><br>Name the error is present in the above code.<br>A) Syntax Error                      B) NameError                      C) ZeroDivisionError                      D) Logical Error | 1 |
| 8  | The _____ provides pictorial representation of given problem.<br>A) Algorithm                      B) Flowchart                      C) Pseudocode                      D) All of these   | 1 |
| 9  | Which of the following is a valid identifier in python?<br>A) var@                      B) 32var                      C) class                      D) abc_d_e  | 1 |
| 10 | What will be the output of the following: print(False==0)   | 1 |



- 11 Predict the output: 1  
 bool(4-2) or 8<5  
 A) 2                      B) True                      C) False                      D) Error
- 12 The following code is not giving the intended output. If input is given as 4 then output should be 16. Find the error. 1  
 N=input("Enter a Number")  
 S= N\*N  
 print(S)
- 13 Use a Python range() function to create the following sequences: (7,3,-1,-5) 1
- 14 Predict the output when this code executes. 1  
 x = 1  
 while (x <= 5):  
     x + 1  
 print(x)
- A) 6                      B) 5                      C)1                      D) No output
- 15 Predict the output, if 1  
 str="hello world"  
 print(str[:-6:-1])
- A) 'world'                      B) 'dlrow'                      C) 'hello'                      D) 'olleh'
- 16 How many times the word "Python" printed in the following statement. 1  
 S="I Love Python"  
 for ch in S[3:8]:  
     print("Python")

Q17 and 18 are **Assertion (A) and Reasoning(R)** based questions.

Mark the correct choice as

- (A) Both A and R is true and R is the correct explanation for A.  
 (B) Both A and R is true and R is not the correct explanation for A.  
 (C) A is True but R is False.  
 (D) A is false but R is True.

- 17 **Assertion (A):** Both for and while loops can have an else clause. 1  
**Reasoning(R):** The loop else executed only when the loop terminates with break statement.
- 18 **Assertion(A):** "hello world"[5] = '#' will give error 1  
**Reasoning(R):** String is an immutable sequence and does not support item assignment

### Section-B

- 19 Predict the output of the following code segment 2  
 x, y = 7, 2  
 x, y, x= x+1, y+3, x+10  
 print (x, y)

**OR**

Add a pair of parentheses to each expression so that it evaluates to True.

- a) 0 == 1 == 2  
 b) 2 + 3 == 4 + 5 == 7

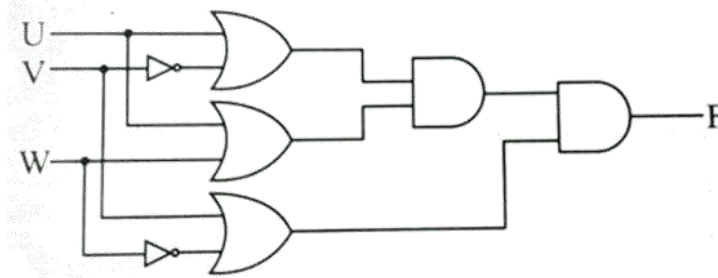
- 20 List any four functions of an operating system? 2

- 21 Differentiate between ASCII and Unicode 2

**OR**

Encode the word 'INFO' using ASCII and convert the encoded value into binary values of 7 bit each.

- 22 Write the Boolean Expression for the Logic Circuit as shown below: 2



**OR**

Draw the Logic Circuit for the following Boolean Expression:  $Y = (P.Q + (Q.R)) P'$

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

```
n=int("enter the number of terms:")
for i in range[0,10]:
    if x=y
        print("They are equal")
    else:
        Print("They are unequal")
```

- 24 Write the output of the code given below: 2

```
str="hello EarTh"
Str=""
for char in str:
    l=char.lower()
    if l=='a' or l=='e' or l=='i' or l=='o' or l=='u':
        Str += l.upper()
    else :
        Str += char
print(Str)
```

**OR**

Write the output of the code given below:

```
w="hello EarTh".split()
s=""
for c in w:
    rw=""
    for ch in c :
        rw = ch + rw
    s += rw + " "
print(s)
```

- 25 State De Morgan's Laws and prove it by using truth table. 2

### Section-C

- 26 Write a program to display the each word and its length present in a string. (Without using the predefined function) 3

**OR**

Write a program to input line(s) of text from the user until enter is pressed. Count the total number of characters in the text (including white spaces), total number of alphabets, total number of digits, (Assume that each word is separated by one space).

- 27 Convert the following numbers into appropriate numbers. 3  
 A)  $(548)_{10} = (?)_{16}$   
 B)  $(76F)_{16} = (?)_8$   
 C)  $(1010.1001)_2 = (?)_{10}$
- 28 Evaluate the following expressions. 3  
 A)  $7+9*2**3!=5//3-5$  and  $56>=54$   
 B)  $(0>6)$  or  $(\text{not } 10==6)$  and  $(\text{not } 10>0)$   
 C)  $12\%5*3+(2*6)//4$
- 29 i) Write a Python code to evaluate the given expression by accepting values for a, b and c. 2+1  

$$x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$
 ii) Evaluate the following: **True or 5!=7 and True or 2==2 and not(1==2 and 2==2)**
- 30 Write a program to accept a number and check whether the number is a palindrome or not. 3  
 Display the message accordingly. (A number is said to be a palindrome if the new number obtained after reversing the digits is the same as the original number.)

### Section-D

- 31 Consider the following code segment for the 4  

```

a = int(input("Enter an integer: "))
b = int(input("Enter an integer: "))
if a <= 0:
    b = b + 1
else:
    a = a + 1
if a > 0 and b > 0:
    print("VERY POOR!")
elif a > 0:
    print("A is really good!")
if b > 0:
    print("B is also good!")
else:
    print("VERY GOOD!")
  
```

 i) What letters will be printed if the user enters 0 for a and 0 for b?  
 ii) What letters will be printed if the user enters 1 for a and 1 for b?  
 iii) What letters will be printed if the user enters 1 for a and -1 for b?  
 iv) What letters will be printed if the user enters 1 for a and 0 for b?
- 32 Richard is a Python learner and has wrote the following code: 4  

```

str= 'Object#object#object'
dl='#'
print(str.split(dl))
str1=["object","oriented","programming"]
dl=""
print(dl.join(str1))
i=len(str)
print(i)
print("The string is:",str[1::-1])
  
```

#line 1  
#line 2  
#line 3  
#line 4

- A) What will be the output of the code in #Line 1?
- B) What will be the output of the code in #Line2?
- C) What will be the output of the code in #Line3?
- D) What will be the output of the code in #Line4?

### Section-E

- 33 A) Define comment and give example to present multiline comment. 2  
 B) Draw a flowchart to check whether a given number is an Armstrong number. 3

### OR

- A) Define Escape Sequence and give example of any two escape sequences. 2  
 B) Given a set of 100 integers, draw a flowchart to count number of odd and even integers, find the product of odd integers and sum of even integers. 3

- 34 i) Write a program to accept number of days, age and sex ('M', 'F') of a worker and display the wages earned at the weekend as per the given condition below. 3

age	sex	Wage/day
>=18 and <=30	M	800
	F	850
>30 and <=40	M	925
	F	950
>40 and <=60	M	1000
	F	1050

- ii) Write a program to print the pattern for n number of rows and with user define character. Number of rows must be greater than 1, else display error. 2

```

*****
*****
***
**
*
```

- 35 i) Consider the following string and Do as directed: 2  
 str = " Object oriented "

- a) Check whether string contains "ject" or not.
- b) Partition the string at the occurrences of letter 'e'
- c) Concatenate the string with "programming"
- d) Remove the leading and trailing spaces.

- ii) Write a program that reads an e-mail id of a person in the form of a string and ensures that it belong to domain @davedu.com. The program will display valid or invalid email-id. 3  
 (Assumption: No valid characters are there in email id)

### OR

- i) Consider the following string and display using string slicing: 2  
 str="PYTHON PROGRAM"

- a) Display word 'NOHTYP'
- b) Display word 'PROGRAM'
- c) Display word 'MARGORP'
- d) Display word 'MARGORP NOHTYP'

- ii) Write a program to input an address containing a pincode and extract and print the pincode from the address. (Assumption: Pincode contains six digits) 3

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: 2023 – 2024**

**Class : XI**

**Maximum Marks : 60**

**Subject : Cost Accounting (823)**

**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**

- |       |  |                  |
|-------|--|------------------|
| 1     | Answer any 4 out of the given 6 questions on Employability Skills  | $1 \times 4 = 4$ |
| (i)   | We use an _____ followed by an 's' to show that something belongs to someone.<br>(Fill in the blank)   | 1                |
| (ii)  | Weaknesses, also known as 'areas of improvement' are what one does not do well and is not good at. (True/False)  | 1                |
| (iii) | _____ is the process of making yourself look neat, tidy and clean. The way you dress, and groom can send a message that you are confident and smart. (Fill in the blank)   | 1                |
| (iv)  | What is Pronoun?   | 1                |
| (v)   | "Smiling to show happiness and Making a sad face when you are upset" – are the examples of _____. (Fill in the blank)  | 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. (Fill in the blank) | 1                |
| 2     | Answer any 5 out of the given 7 questions  | $1 \times 5 = 5$ |
| (i)   | _____ refers to the original cost at the time of a transaction. The ascertainment of such cost can be done after it has been incurred. It is objective in nature and can be verified after actual operations take place. (Fill in the blank)   | 1                |

- (ii) \_\_\_\_\_ are costs that remain fixed over a range of activity and then jump to a new level as activity changes. (Fill in the blank) 1
- (iii) Stock of materials of a firm in one kind of : 1  
 (a) liability (b) Expenses  
 (c) Income (d) Asset
- (iv) 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
- (v) How many types of materials are classified in cost accounting? 1  
 (a) 7 (b) 5  
 (c) 3 (d) None of these
- (vi) If the cost of sales is Rs. 5,30,000 and the manufacturer sells the product at a profit of 20% on sales. What is the amount of profit? 1  
 (a) Rs. 1,32,500 (b) Rs. 1,06,000  
 (c) Rs. 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. (Fill in the blank) 1
- 3 Answer any 6 out of the given 7 questions  $1 \times 6 = 6$
- (i) A cost driver is an \_\_\_\_\_ which generates cost. 1  
 (a) Activity (b) Action  
 (c) Object (d) All
- (ii) 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)
- (iii) \_\_\_\_\_ costs are irrelevant for decision making as they cannot be changed by any decision that will be in the future. (Fill in the blank) 1
- (iv) Under \_\_\_\_\_ the value and amount of inventory is found out only at the end of accounting period after having physical verification of units in hand. 1  
 (a) Perpetual system (b) Periodical system  
 (c) LIFO (d) FIFO
- (v) Carriage Inward is an indirect expense. (True/False) 1
- (vi) \_\_\_\_\_ is that level of materials at which a new order for material is to be placed. (Fill in the blank) 1
- (vii) Material control is a matter of coordination of purchase, receiving, inspection, store keeping, production control and stock control department. (True / False) 1
- 4 Answer any 5 out of the given 6 questions  $1 \times 5 = 5$
- (i) Variable cost does not change within the same proportion in which output changes. (True/False) 1
- (ii) Wages of machine operator is an example of \_\_\_\_\_ labour. (Fill in the blank) 1
- (iii) Printer cartridge used office of a manufacturing unit is a \_\_\_\_\_. 1  
 (a) Direct material (b) Indirect material  
 (c) Semi-finished material (d) Finished material

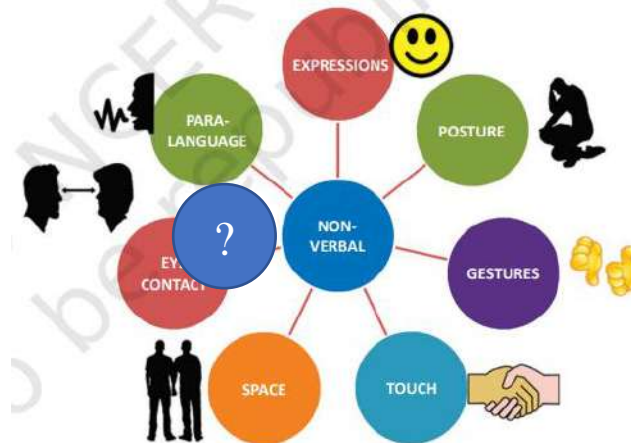
- (iv) Overhead is the aggregate of \_\_\_\_\_ costs. (Fill in the blank) 1
- (v) Minimum Stock Level is 1,000 units; Reorder Quantity is 2,400 units. Average Stock Level is \_\_\_\_\_. (Fill in the blank) 1
- (vi) \_\_\_\_\_ represents the quantity of materials which is normally ordered when the materials reach ordering level. (Fill in the blank) 1
- 5 Answer any 5 out of the given 6 questions  $1 \times 5 = 5$
- (i) Store ledger is an \_\_\_\_\_ record. (Fill in the blank) 1
- (ii) The following relates to a manufacturing organization: 1
- |                  | Year 1      | Year 2      |
|------------------|-------------|-------------|
| Production       | 1,700 Units | 1,850 units |
| Total cost (Rs.) | 28,500      | 29,250      |
- The variable cost per unit is Rs. 5. What is the amount of fixed cost?
- (a) Rs.18,000 (b) Rs.22,500
- (c) Rs.20,000 (d) Rs.24,000
- (iii) Bill of Material and Material requisition are same. (True/False) 1
- (iv) Larger the number of orders, lower will be the storage cost. (True/False) 1
- (v) \_\_\_\_\_ cost can be identified with a cost center. (Fill in the blank) 1
- (vi) Essential requirement of material control is : 1
- (a) Proper planning (b) Level of stock materials
- (c) Physical verification of stock (d) All of these
- 6 Answer any 5 out of the given 6 questions  $1 \times 5 = 5$
- (i) Cost of each department is ascertained under: 1
- (a) Batch Costing (b) Departmental Costing
- (c) Process Costing (d) Contract Costing
- (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. (Fill in the blank) 1
- (iv) 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
- (v) LIFO stands for 1
- (a) Labour in First Out (b) Last in First Over
- (c) Lower in First Out (d) Last in First Out
- (vi) 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

### 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.

- 7 What is Goal? Also explain how to set a goal. 2

- 8 Write down any two importance of personal hygiene. 2
- 9 2



Name the type of communication highlighted with the above picture and explain.

- 10 What do you mean by Team Work? Write one advantage. 2
- 11 What do you mean by effective communication. 2

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

- 12 Calculate Raw Materials Consumed during the year from the following information: 2
- Opening stock of raw materials Rs. 70,000
- Closing stock of raw materials Rs. 80,000
- Returns to suppliers Rs. 20,000
- Raw materials purchased Rs.1,30,000
- 13 Write down any two objectives of Material Control. 2
- 14 What is Ordering Cost? 2
- 15 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
- 16 What is Revenue Expenditure? 2

Answer any 2 out of the given 3 questions in 30– 50 words each : (3 x 2 = 6 marks)

- 17 Determine the amount of Factory Overhead from the following information: 3
- Raw Materials consumed Rs. 1,50,000
- Productive Wages Rs. 1,00,000
- Chargeable Expenses Rs. 50,000
- Factory Cost 400% of Productive Wages.
- 18 Name any two items excluded from cost or cost sheet. 3
- 19 Distinguish between Cost Allocation and Cost Apportionment on the basis of the following points of differences: 3
- (a) Definition
- (b) Implication
- (c) Example



Answer any 3 out of the given 5 questions in 50– 80 words each : (4 x 3 = 12 marks)

- 20 A company manufactures 5,000 units of a product per month. The cost of placing an order is Rs. 100. The purchase price of a raw material is Rs. 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 and average period is 6 weeks. The carrying cost inventory is 20% per annum. You are required to calculate (Any Two):  
 1. Average Stock Level  
 2. Re-order Level  
 3. Maximum Level  
 4. Minimum Level
- 21 From the following information relating to the production for the year ended on 30th June, 2023, prepare a Cost Sheet showing therein Works Cost and Cost of Production:
- |                                 | Rs.               |
|---------------------------------|-------------------|
| 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             |
- 22 Distinguish between Cost Accounting and Financial Accounting on the basis of the given information:  
 (a) Meaning  
 (b) Types of Costs  
 (c) Time Period of Recording  
 (d) Users
- 23 Identify from the following:  
 (i) Factory Overhead;  
 (ii) Office and Administrative Overhead and  
 (iii) Selling and Distribution Overhead.  
 (a) Supervision  
 (b) Sundry Office Expenses  
 (c) Director's Fees  
 (d) Warehouse Expenses  
 (e) Packing Expenses  
 (f) Depreciation of Plant and Machinery  
 (g) Legal Charges  
 (h) Gas and Water
- 24 From the following information, compute:  
 (a) Number of Orders;  
 (b) Time Gap Between two Consecutive Orders  
 Consumption 300 units per quarter;  
 Cost per unit Rs. 40;  
 Cost of processing an order Rs. 600;  
 Obsolescence 15% and Insurance on inventory 25%.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: 2023-2024**

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

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

General Instruction:

- i) All questions are compulsory. This Question Paper comprises of 34 questions.
- ii) Marks for questions are indicated against each.
- iii) This paper contains 20 Multiple Choice Questions of 1 mark each.
- iv) Questions carrying 3 marks for each part are required to be answered within 60-80 words each.
- v) Questions carrying 4 marks for each part are required to be answered within 80-100 words each.
- vi) Questions carrying 6 marks for each part are required to be answered within 100 -150 words each.
- vii) All parts of a question should be answered at one place.
- viii) Question No. 34 is a Source Based Question of 6 marks.

**SECTION A – STATISTICS FOR ECONOMICS**

- 1 Which of the following statement is incorrect? 1
  - (a) Developed countries also face Economic Problems.
  - (b) A person teaching his daughter for her Board Exam is a non-Economic activity.
  - (c) Welfare definition of Economics has been given by Lionel Robbins.
  - (d) Attending a marriage is a Non-Economic activity.
- 2 Identify the correct sequence of alternatives given in Column II by matching them with respective items in Column I : 1

Column I	Column II
(a) Primary data	i) Data already collected by other individuals /organisations
(b) Mailing Survey	ii) A person who actually collects the desired statistical information
(c) Secondary data	iii) Questionnaires are mailed to the respondents
(d) Enumerator	iv) Collection of data from its source of origin.

  - A) (a) – (iv), (b) – (i) , (c) – (iii), (d) – (ii)
  - B) (a) – (iv), (b) – (iii), (c) – (i), (d) – (ii)
  - C) (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv)
  - D) (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)
- 3 Mid values of a series are given as 12.5,17.5,22.5,27.5. What will be the class interval for the mid value 37.5? 1
  - a) 35-40
  - b) 30-40
  - c) 35-45
  - d) 30-45
- 4 Which of the following statement is correct? 1
  - (a) Sum of deviations of the observations from their arithmetic mean is always zero.
  - (b) Sum of Squares of deviations of the items from their arithmetic mean is zero.
  - (c) Mean will not be affected even if the values of a series are increased or decreased.
  - (d) Both (a) and (b).
- 5 In case of an even number of observation, which of the following is median? 1
  - (a) Any of the two middle –most values.
  - (b) The simple average of these middle values.
  - (c) Sum of the two middle values.
  - (d) Difference of the two middle values.
- 6 If mode is ill defined then it is calculated with the help of formula: 1
  - (a) Mode =2 Median -3 mean
  - (b) Mode =2 Median + 3 mean
  - (c) Mode=3 Median + 3 mean
  - (d) Mode=3 Median -2mean

- 7 Graphic location of mode is done with reference to : 1  
 (a) Cumulative frequency curve (b) Frequency Polygon  
 (c) Frequency Curve (d) Histogram
- 8 Read the following statements: Assertion (A) and Reason (R) . Choose one of the correct alternatives: 1  
**Assertion (A):** Line Frequency Graph is used to depict continuous series.  
**Reason(R):** While constructing line frequency graph, values of variables are measured on the X-axis and the corresponding frequency on the Y-axis.  
 Alternatives :  
 (a) Both Assertion (A) and Reason(R) are True and Reason (R) is not 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.
- 9 Read the following statements carefully & choose the correct alternative from the following: 1  
**Statement 1:** Median is a positional average which divides the distribution into two equal parts.  
**Statement 2:** Positional averages like median are affected by the extreme items of the series.  
 (a) Both the statements are True.  
 (b) Both the statements are False..  
 (c) Statement 1 is True & Statement 2 is False.  
 (d) Statement 2 is True & Statement 1 is False.
- 10 In the following question a statement of Assertions is followed by a statement of Reason. Choose the correct alternative among those given below. 1  
**Assertion (A):** Graphic location of median is done through cumulative frequency curve or ogive.  
**Reason (R):** The point of intersection of less than ogive and more than ogive gives us the value of mode.  
 a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.  
 b) Both Assertion and Reason are true and Reason is not the correct explanation of Assertion.  
 c) Assertion is true but Reason is false.  
 d) Assertion is false but Reason is true.
- 11 Explain in brief any two functions of Statistics. 3
- 12 a) What will be your first step to calculate Median when mid values are given along with corresponding frequencies? 1+2  
 b) Find the Median of the following data.  
 2.50, 5.70, 3.20, 4.80, 5.75, 2.56
- OR
- Explain any one mathematical property of Arithmetic Mean with a hypothetical numerical example. 1+2
- 13 Analyze the importance of statistics to Govt. (any two) 4
- 14 a) Define discrete variable  
 b) Twenty students of Class XI have secured the following marks:  
 11, 12, 14, 11, 16, 11, 17, 16, 17, 14  
 17, 18, 20, 14, 20, 17, 20, 17, 14, 20.  
 Arrange the data in a discrete series.
- OR
- What do you mean by classification of data? Differentiate Geographical & Chronological classification. 1+3
- 15 The average weight of a group of 25 boys was calculated to be 52 kg. It was later discovered that one weight was misread as 45 kg instead of 54 kg. Calculate the correct average weight. 4

- 16 Draw 'less than' and 'more than' ogives for the following frequency distribution: 6

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	3	4	8	10	3	2

- 17 Find out Mode graphically from the following series. 6

Class interval	30 -40	40 -50	50- 60	60 -70	70 -80	80 -90	90 -100
	3	4	6	10	6	4	3

Or

An incomplete distribution is given below:

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	24	60	?	130	104	50	36

You are given that median is 47. Find the missing frequency.

### SECTION B – MICRO ECONOMICS

- 18 Assume that a PPF for butter and guns drawn is a straight line. It means – 1  
 (a) less and less units of butter are sacrificed to gain an additional unit of guns.  
 (b) More and more units of butter are sacrificed to gain an additional unit of gun.  
 (c) Every time same units of butter are sacrificed to gain an additional unit of gun.  
 (d) both (a) and (c) .
- 19 The total utility derived by Shyam by eating 6 apples is 300 utils . Marginal Utility of the 7<sup>th</sup> apple 1  
 is 30 utils. The total utility for 7 apples will be-  
 (a) 330 utils (b) 270 utils (c) 300 utils (d) 30 utils
- 20 Suppose a consumer can afford to buy 6 units of good X and 8 unit of good Y if she spends her 1  
 entire income. The prices of two goods are ₹6 and ₹8 respectively. What is the consumer's income?  
 (a) 1000 (b) 110 (c) 100 (d) 10
- 21 Total utility is \_\_\_\_\_ at the point of satiety: 1  
 (a) Minimum (b) Maximum (c) Zero (d) Negative
- 22 Ceteris Paribus means: 1  
 (a) Holding supply constant (b) Holding demand constant  
 (c) Price being constant (d) Other factors being constant
- 23 Which of the following influence price elasticity of demand? 1  
 (a) Nature of the commodity (b) Income level  
 (c) Availability of substitutes (d) All of these
- 24 The Indian government imposed heavy tax on a commodity to reduce its consumption by the 1  
 public. Such heavy taxes will decrease the demand of the commodity only when :  
 (a)  $E_d=0$  (b)  $E_d>1$  (c)  $E_d<1$  (d)  $E_d=0$ .
- 25 Read the following statements: Assertion (A) and Reason (R). Choose one of the correct 1  
 alternatives:  
**Assertion (A):** Positive Economics avoid economic value judgments.  
**Reason(R):** Positive Statements can be verified as true or false by comparing with actual data  
 Alternatives:  
 (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.

- 26 Read the following statements carefully & choose the correct alternative from the following : 1  
**Statement 1:** Only one indifference curve passes through a particular point on an indifference map.  
**Statement 2:** Indifference Curve is concave to the origin.  
 (a) Both the statements are True. (b) Both the statements are False.  
 (c) Statement 1 is True & Statement 2 is False. (d) Statement 2 is True & Statement 1 is False.
- 27 Read the following statements: Assertion (A) and Reason (R). 1  
 Choose one of the correct alternatives:  
**Assertion (A):** Elasticity of Demand is a unit free measure.  
**Reason:** Elasticity of demand is a ratio of percentages.  
 (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.
- 28 (a) Why do economic problems arise? 2+1  
 (b) Name the mechanism by which economic problems can be solved in a capitalist economy.
- 29 Differentiate between rightward movement along the demand curve and rightward shifting of the demand curve. 3
- OR
- Differentiate between elastic and inelastic demand (use diagram)
- 30 What is MRT? What happens to it if we move downward along a PPC? Why does it happen? 2+1+1  
 (mention the reason only)
- OR
- State with reason what will happen to PPC if:
- a) Technology of production of the good measured in X axis improves but technology of the good measured in Y axis remains same.  
 b) Two new factories are set up in the country.
- 31 State true /false with reason. 2x2  
 a) If MU decreases , TU will also decrease.  
 b) When  $P_x = P_y$ , the consumer will attain equilibrium if  $MU_x = MU_y$
- 32 Briefly explain any two reasons behind the downward moving nature of the demand curve. 2x2
- 33 a. State why I.C is downward moving to the right ? 2+4  
 b. Differentiate between budget line and budget set.
- OR
- 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 arguments in favour of your answer. What will a rational consumer do in this situation? Use utility analysis. 1+2+3
- 34 Read the following passage carefully & answer the questions on the basis of the same. 2+2+2  
 Salt has no close substitute and moreover a household has to share a negligible part of his entire budget on it. Therefore, even in spite of increase in the price of salt, its demand will not be affected. However, demand for a particular brand of toothpaste is comparatively more elastic as there are many brands of toothpaste available in the market, so the consumers can switch over to any other brand in case of hike in the price of a particular brand of toothpaste.  
 a) Diagrammatically represent the impact of rise in price of Pepsodent on the demand for Colgate.  
 b) i) Demand for salt is inelastic & that of any brand of soap is elastic in nature". Justify.  
 ii) How does proportion of income spent on a good affect the price elasticity of demand?

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

## HALF YEARLY EXAMINATION

SESSION: 2023-24

CLASS: XI

MAXIMUM MARKS: 80

SUBJECT: ENGLISH CORE

TIME: 3 HOURS

### Details and instructions

1. The Question Paper contains THREE sections-READING SKILLS-(A), GRAMMAR AND CREATIVE WRITING SKILLS-(B), and LITERATURE TEXT BOOK AND SUPPLEMENTARY READING TEXT-(C).
2. Attempt questions based on specific instructions for each part.
3. This paper consists of 08 pages.
4. There are total 16 questions.
5. All the questions are compulsory.

### SECTION A: READING SKILLS (26 marks)

#### 1. Read the following passage

10

- A. 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?
- B. Whether it is a workman or an executive, earphones have become an inseparable part of our lives. Sometimes their excessive use can create 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.
- C. Hundreds of such earphone addicts commute by the Delhi Metro every day. While one should not begrudge anyone for 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 on 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. And then suddenly, I spotted a duffel bag which created the fear of containing a bomb inside. The bomb scare lasted for several minutes. Then suddenly, a youth 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.
- D. We were stunned but recovered in time to ask him where he was all this while? His answer: 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.

Based on your understanding of the passage, answer the questions given below:

1X10

- (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 done nothing? 1
- (a) Because he hadn't heard them.
- (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 electrician episode is explained by the narrator as ..... 1  
(a) exasperating (b) infuriating (c) tragicomic (d) disgusting
- (iv) Which of the following correctly lists the tone with which the author had written the passage? 1  
1. Optimistic 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) The author says that we should not resent people..... 1  
(a) indulging in their love for music (b) wanting privacy  
(c) Both (a) and (b) (d) Neither (a) nor (b)
- (vi) The passengers were stunned because..... 1  
(a) the youth was careless  
(b) the bag contained a bomb  
(c) the youth had not been visible anywhere near the bag earlier  
(d) None of the above
- (vii) Pick the option showing the most appropriate use of 'stunned' as used in the passage. 1  
(a) The animals are stunned before slaughter.  
(b) The robber stunned the guard by banging him on the head.  
(c) Many cinema-goers were stunned by the film's violent and tragic end.  
(d) The impact of the ball had stunned her.
- (viii) The word..... in the passage is an antonym of "absorb". 1  
(a) exude (b) bothering (c) commute (d) stunned
- (ix) Why did the bomb scare happen? 1
- (x) How can 'iPod Oblivion' be defined? 1
2. **Read the passage given below and answer the questions that follow.** 8

1. Social media addiction is an emerging health problem in India, especially among the young population. Now-a-days, irrespective of their socio-economic background, adolescents have greater exposure to electronic gadgets like smart phone at a much younger age. The introduction of internet and the launch of low cost data packages in 2016-17 has put India on the global map for large scale consumption of mobile data with active social media users going up to 197 million (14% of the population)

2. For adolescents, phone-based communication is an important way to maintain their social relationships. The use of social media websites then is one of the most common activities that has become an integral part of their day-to-day lives.

3. Hence making them more to social media overuse or addiction which may have a deleterious effect on the physical and psychological health. Hence, it becomes important to study the pattern of social media usage and associated physical and mental health issues among Pre-University college group as they are the vulnerable group.

4. A cross-sectional study was conducted in Government and Private PU colleges situated in Urban Bengaluru city, Karnataka, India during July to December 2016. The objectives of the study were to assess and compare the prevalence of social media addiction in different organisations, to assess the health problems related to social media usage and to assess the various factors associated with social media addiction.

5. A total of 1870 participants were recruited from both government and private PU colleges. Each participant was administered a pretest and semi-structured questionnaire as the study tool. They were asked to answer about the non-academic usage of social-media. Scale comprised 10 questions, each given a score ranging from 0-4 (0-never, 1- seldom, 2- occasionally, 3- often, and 4- always), with minimum score of 0 and a maximum score of 40. Participants were classified based on the scores as: Normal (<12), mild addiction (13-20), moderate addiction (21-32) and severe addiction ( $\geq 33$ ).

**Distribution of study subjects According to Grading of Social Media Addiction\***

Grading	Government	Private	Total
Mild	182 (80.8)	191 (66.3)	373 (72.7)
Moderate	39 (17.3)	93 (32.2)	132 (25.7)
Severe	4 (1.9)	4 (1.5)	8 (1.6)
Total	225 (100)	288 (100)	513 (100)

**\*Figures in parenthesis indicate percentages**

There was no difference in the prevalence of social Media Addiction between Government and Private PU college study subjects contrary to the assumption that Private college subjects will be more prone to social media addiction due to higher social status and purchasing capacity.

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

- i. Which of the following statements can be concluded from the given data? 1
  - (a) Almost every student is addicted to social media.
  - (b) There are students who are not addicted to social media
  - (c) Private schools have relatively higher rate of addiction.
  - (d) More than 70% of the students are mildly addicted to social media.
- ii. A suitable antonym for the word 'deleterious' as used in Para-3 is..... 1
  - (a) beneficial
  - (b) pernicious
  - (c) adverse
  - (d) detrimental
- iii. Which of the following is an important way to maintain social relationships for adolescents? 1
  - (a) Net surfing
  - (b) Phone based communication
  - (c) Netflix
  - (d) All of the above
- iv. Which of the following study tool was used in the survey? 1
  - (a) yes-no questions
  - (b) a scale-based questionnaire
  - (c) some physical and IQ based tests
  - (d) physical interview
- v. Complete the sentence by selecting the most appropriate option. 1  
 The objectives of the study conducted are.....
  - (a) to assess and compare the prevalence of social media addiction in different organisations.
  - (b) to assess the health problems related to social media usage.
  - (c) to assess the various factors associated with social media addiction.
  - (d) All of the above
- vi. Identify the word that indicates that students are at risk of social media addiction. 1
  - (a) Irrespective
  - (b) Exposed
  - (c) Vulnerable
  - (d) Overuse
- vii. What makes social media addiction an important topic of study today? 1
- viii. Why were Pre- University college students selected for the survey? 1

**3. Read the passage given below. 8**

1. The nine letter word "interview" can cause the most knowledgeable and strong person to perspire. That may be one reason, political leaders and corporate giants normally do not agree for an interview. But the popular ones, or those who want to make an impact, willingly give interviews. In modern times, whether you like interview or not, your prospects depend on its success. So you must know what an interviewer expects from you.

2. First an academic question. What is an interview? It is a discussion in which an interviewer faces a candidate for a short while and asks questions to probe his knowledge and awareness on the subject. This is done to assess the personality of the interviewee. It is a very formal means of interaction with one person facing a group of persons, each of whom is a specialist in his or her field.

3. Knowledge is an important component of success in an interview. It has two aspects: range and depth. The former implies that you should know a lot beyond your own specialization and the latter means an awareness of the various aspects of the topics under discussion. An in-depth knowledge is gained through reading and listening. Listening is more important than



reading. Be a keen listener, store major facts in your mind and use them at the appropriate time.

4. Next comes appearance, which means your dress for the interview. You must be elegantly attired for the occasion. Wear a simple outfit that suits your physique and features. Women should wear sarees or any other sober dresses. Casuals like kurta-pyjama should not feature in your selection of dresses.

5. Conducting yourself in an apt way is equally significant. The way you move yourself, sit on the chair, place your hands and your brief-case and talk to the members reflect your behaviour. Walking sloppily, talking loudly or inaudibly, getting irritated easily, and showing documents insistently are symptoms of bad behaviour. A better way is to enter the room smartly, move forward with dignity, greet the board, sit when asked to, and thank at the end before you leave.

6. Expression is the most important aspect of the interview. It conveys your views and opinions. For good expression, what you need is clarity of mind and speech. Show your balanced thinking to convey your views clearly.

7. Convey your views effectively. In an interview, you may be asked questions where you have to either agree or disagree. Whatever your approach, convince the board that it is unbiased. The board may not agree with your view. Even if you disagree, let not your face show it. Create an impact through your expressions. Give an impression of being a leader. Show that you can cooperate and get cooperation that you can share views and get people to accept your authority to reach decisions and implement them.

8. Finally, never consider yourself to be a perfect man. Being a human being makes you susceptible to flaws. However, try to conform to the highest standards and reach as close to perfection as possible.

**(a) On the basis of your reading of the above passage, make notes on it, using headings and sub-headings. Use recognizable abbreviations (minimum four) and give an appropriate title.** 5

**(b) Write a summary of the passage in about 50 words based on your notes.** 3

**SECTION B GRAMMAR AND CREATIVE WRITING SKILLS: (23 marks)**  
**GRAMMAR (7)**

4. **Fill in the blank by using suitable clauses.** 1X3
- This is the place.....
  - Arjuna cannot succeed.....

**Fill in the blanks with the correct forms of the verbs given in brackets.**

- In the recent decade, the efficiency of United Nations.....(has) questioned by a growing number of countries.

OR

When I visited him in Mumbai he .....(teach) there for five years.

5. **Re-order the following sentences in a meaningful sequence.** 1X4
- The commercial uses of bamboo are astonishing.
  - Half of the bamboo produced is turned into paper.
  - Another important use of bamboo is in housing.
  - Bamboo is a versatile plant.

**CREATIVE WRITING SKILLS** 16

6. You are Sumit/Sumita Roy of 36 A, Sarat Bose Road, Kolkata. You want to let out your house only to Central Government employees. Draft an advertisement within 50 words to be published in the classified column of The Telegraph. Give the details of the building and the rent expected. 3

OR

V.S. Model School, Dhanbad requires cricket and hockey coaches. As the principal of the school draft a suitable advertisement within 50 words to be published in the classified column of The Indian Express, stating your requirements regarding age, qualification, experience etc.

7. Bidhannagar Police Commissionerate, Kolkata seeks to raise public awareness on the increase in the number of cases of road accidents. Draft a poster for them in not more than 50 words. 3

OR

Tourism Department, Government of Sikkim has launched an ambitious plan to develop adventure sports and eco-tourism activities in the state. Prepare a suitable poster for display at important public places /publication in newspapers. (Word limit 50)

8. The recent rise in the incidents of violent behaviour of students is a matter of concern for all. The problem can be cured if students learn how to manage anger. Now, As Arpan/Aparna a student of class XI of R.N. Tagore Public School, Siliguri, draft a speech on the topic ‘**How to Control Anger**’ in 120-150 words to be delivered in the school’s morning assembly. 5



OR

You are Vikram/Bhumika, A student of class XI of Gandhi Memorial School, Jamshedpur. Recently you have observed that advertisements exercise a lot of influence on the common man. They have invaded man’s life through media. You have decided to deliver a speech on ‘**The Effects of Advertisements on the Consumers**’ in the morning assembly of your school. Draft the speech within 120-150 words. You may take help from the following points.

**IMPACT OF ADVERTISEMENT ON CONSUMERS:**

- Advertising persuades the audience of usefulness of the product and makes them feel the need to have the product. Effective advertisement creates demand and makes the person go to shop and buy the product.
  - It promotes new usages of a product.
  - Attracts customers with special offers like festival discounts, stock clearance sales etc.
  - Leads to extra burden as expenditure increases.
9. India has recently launched its most ambitious lunar mission *Chandrayaan 3*. The mission has been looked upon both as advantageous as well as disadvantageous for a country like India. Now, taking cues from the points given below and using your own ideas, write a debate for or against the motion. (120-150 words) 5

**For:** India rising as space explorer with new scientific possibilities-first ever country in the world to attempt to make a successful soft landing in the Moon’s south pole-mysteries and possibilities of the moon will be known-India building name and fame in scientific and technological ventures-a milestone in India’s space research.

**Against:** Financial burden-technological challenges as experienced in the previous mission-limited chances for getting significant additional scientific data-resources, time and expertise could be redirected towards other socio-economic priorities, like, poverty alleviation, education, healthcare and infrastructure development.

OR

You are Suman/Sumana of Rajendra Public School, Ranchi. Your school has organised a debate on ‘**Stricter Laws and Their Serner Implementation Is the Only Solution for Underage Driving**’. Now, as a contestant write your views in favour or against the motion. (120-150 words)

WHAT THE LAW SAYS	
Legal action can be initiated under the Motor Vehicles Act and IPC in cases of underage driving	
<b>Motor Vehicles Act</b> > Underage riding is an offence under the MV Act > Section 199A states the juvenile’s guardian/ the vehicle owner shall be deemed to be guilty of the contravention, shall be liable to be proceeded against and punished accordingly in cases	registered under it <b>Punishment</b>   Fine of ₹ 25,000, three years of jail or both > Registration of the vehicle can be cancelled for 12 months > Underage driver will not get a driving licence till he/she turns 25
<b>Indian Penal Code Section 336</b> > The IPC Section states that whoever does act so rashly or negligently as to endanger human life or the personal safety of others can be punished	<b>Punishment</b>   Imprisonment of either description for a term which may extend to three months, or with a fine which may extend to ₹ 250, or with both > The minimum age to apply for a valid driving permit is 18

## SECTION –C

### LITERATURE TEXT BOOK AND SUPPLEMENTARY READING TEXT

(31 Marks)

10. **Read the given extracts carefully and answer the following questions.** 3

*“I descend to lave the droughts, atomies, dust layers of  
the globe,  
And all that in them without me were seeds only, latent,  
unborn;  
And forever, by day and night, I give back life to my  
own origin,  
And make pure and beautify it;”*

- i) The lines in the extract can be read as a reply to a question. Select the option that includes the most likely question. 1

- (a) What’s your purpose on the Earth? (b) Do you work randomly?  
(c) Is there a fixed way you function? (d) Do you believe in rebirth?

- ii) Select the option that displays a quality of the rain, as per the extract. 1

- (a) Superficial (b) Relentless (c) Empathetic (d) Reckless

- iii) Complete the sentence appropriately. 1

The rain beautifies and purifies its own origin by \_\_\_\_\_

**OR**

*“Was it the time I realised that adults were not  
all they seemed to be,  
They talked of love and preached of love,  
But did not act so lovingly,  
Was that the day!”*

- (i) According to the given extract, which quality appropriately describes adults? 1

- (a) Loving (b) Religious (c) Hypocrites (d) Jealous

- (ii) The significance of the given extract is that it highlights \_\_\_\_\_. 1

- (a) the true nature of adults  
(b) the innocence inherent in children  
(c) the contrast between adulthood and innocence  
(d) how adulthood changes people

- (iii) Mention the poetic device used in the line “They talked of love and preached of love”? 1

11. **Read the given extracts carefully and answer the following questions.** 3

*“My grandfather’s portrait hung above the mantelpiece in the drawing room. He wore a big turban and loose-fitting clothes. His long, white beard covered the best part of his chest and he looked at least a hundred years old. He did not look the sort of person who would have a wife or children. He looked as if he could only have lots and lots of grandchildren. As for my grandmother being young and pretty, the thought was almost revolting.”*

- i) Select the style of writing displayed in the given extract. 1

- (a) Analytical (b) Comparative (c) Descriptive (d) Reflective

- ii) Fill the blank with the correct option. 1

The line – “grandfather’s portrait hung above the mantelpiece”-suggests that the grandfather was \_\_\_\_\_.

- (a) a well dressed man (b) too authoritative  
(c) no more (d) stern

- iii) Explain the phrase, “the thought was almost revolting.” 1

**OR**

*“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) Select the option that completes the given sentence appropriately. 1  
 'Caused a sensation' in the given context would refer to .....  
 (a) something very popular or talked about (b) something very irritating  
 (c) something that people hate (d) something that is ignored by people  
 (ii) Select the correct option to fill in the blank. 1  
*King Tut was buried with everyday things because\_\_\_\_\_.*  
 (a) he was an ordinary person (b) he would need them in the afterlife  
 (c) these items were of no use to those burying Him (d) Tut was buried alive  
 (iii) Select the most suitable word from the extract to complete the following analogy: 1  
 Beautiful: Attractive :: Rebirth:.....

12. **Read the given extracts carefully and answer the following questions.** 4

*"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) Why did the horse's owner refuse to believe that the boys had stolen his horse? 1  
 (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  
 (ii) Why did the boys return the horse? 1  
 (a) Because they were conscience stricken (b) Because they were afraid  
 (c) Because they found it difficult to hide the horse (d) Because they were accused of theft  
 (iii) John Byro said, "*A suspicious man would believe his eyes instead of his heart.*" What does it tell about him? 1  
 (iv) What is the importance of the incident presented in the given extract? 1

**OR**

*I looked up. The girl put cups ready on the tea-table. She had a broad back. Just like her mother. She poured tea from a white pot. All it had was a gold border on the lid, I remembered. She opened a box and took some spoons out.*

*'That's a nice box.' I heard my own voice. It was a strange voice. As though each sound was different in this room.*

*'Oh, you know about them?' She had turned round and brought me my tea. She laughed. 'My mother says it is antique. We've got lots more.' She pointed round the room. 'See for yourself.'*

- (i) Which of the following is the incorrect meaning of '*I heard my own voice*'? 1  
 (a) To speak about useless things. (b) To speak about important facts  
 (c) To talk without purpose (d) To speak pointless things  
 (ii) What was the reason behind saying- '*That's a nice box*'? 1  
 (a) To complement the finishing of box (b) It was beautiful in colour  
 (c) Because the author had recognised it (d) Because of its shape and pattern  
 (iii) Why was it a 'strange voice'? 1  
 (iv) What is the significance of the given lines? 1

13. Answer the following questions in 40-50 words: 3X2
- i. Share evidences from the story '*The Portrait of a Lady*' to prove that Khushwant Singh's grandmother was a religious and kind-hearted lady. 3
- OR
- "I didn't want to worry you when you were trying to save us all"-What does this reveal about the speaker?
- ii. How does the rain justify its claim that it is the '*Poem of Earth*'? 3
- OR
- What is Markus Natten's observation about '*Independent thinking*' in the poem '*Childhood*'? How significant was this discovery?
14. Answer the following question in 40-50 words: 3X1
- Aram justified that his stealing the horse was not actually stealing. Do you agree? Give reasons. 3
- OR
- "You only notice when something is missing"-What human trait has been brought about by the narrator through these lines from '*The Address*'?
15. Answer the following question in 120-150 words: 6X1
- Animals and birds recognise and value a relationship established with human beings. Explain this, keeping in mind the relationship established by Khushwant Singh's grandmother with animals and birds.
- OR
- The efforts of both the narrator of "*We're Not Afraid to Die...If We Can All Be Together*" and Howard Carter from "*Discovering Tut: The Saga Continues*" who made great discoveries in challenging situations impressed and fascinated you greatly. Now, you have decided to write about their ventures in your upcoming blog. Write the blog post within 120-150 words focusing on your research on the comparison and contrast of the challenges faced by the two and their responses to those challenges.
16. Answer the following question in 120-150 words: 6X1
- How does the story "*The Summer of The Beautiful White Horse*" convey the message of honesty and integrity? How do Aram and Mourad maintain it irrespective of their desire to keep the horse with themselves?
- OR
- Betrayal of trust is an evil which may afflict people and leave them traumatised forever. Discuss the statement in the context of the story "*The Address*".

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

## HALF-YEARLY EXAMINATION

SESSION 2023-2024

CLASS: XI

MAXIMUM MARKS: 70

SUBJECT: ENTREPRENEURSHIP (066)

TIME: 3 Hours

.....  
**General Instructions:**

1. This question paper contains 34 questions.
2. The question paper contains 4 sections- A,B,C and D
  - 2.1 Section A contains multiple choice questions
  - 2.2 Section B – 2 marks; Answers to these questions may be from 30-40 words.
  - 2.3 Section C – 3 marks; Answers to these questions may be from 50-75 words.
  - 2.4 Section D – 5 marks; Answers to these questions may be from 120-150 words.
3. Internal choice is given in the paper, there is no overall choice.

**PART A**

- |   |   |   |
|---|---|---|
| 1 | ‘For a manufacturer of computer, while entering a new market would definitely need a comprehensive business plan but for an entrepreneur who is about to open a stationary shop would not require a detailed business plan’.<br>Do all business units need to prepare a business plan and will the plan vary depending on the size of the unit?<br>a. Yes<br>b. No<br>c. Not necessarily<br>d. None of the above  | 1 |
| 2 | “The entrepreneur will estimate the total demand for goods and then will think about arranging finances for the venture along with the availability of power, labour, raw materials and machinery”. Which of the following promotional function of an entrepreneur is highlighted in Quoted lines?<br>a. Detailed Investigation<br>b. Discovery of an Idea<br>c. Assembling the requirements<br>d. Financing the proposition  | 1 |
| 3 | Read the statements below and choose the correct alternative among those given below:<br><b>Assertion (A):</b> Entrepreneurs are referred to as ‘problem solvers’<br><b>Reason (R):</b> Entrepreneurial actions are efforts to solve problems of others.<br>a. Both Assertion (A) and reason ( R) are true<br>b. Both Assertion (A) and reason ( R) are false<br>c. Assertion (A) is true, but Reason ( R) is false.<br>d. Assertion (A) is false, but Reason ( R) is true. | 1 |
| 4 | Deciding about the steps in manufacturing process, types of plans and machines is related to:<br>a. Organisational Plan<br>b. Human Resource Plan<br>c. Market Plan<br>d. Production Plan   | 1 |
| 5 | According to McClelland’s Theory of Needs..... are characterised by a drive to control and influence others.<br>a. achievement needs<br>b. affiliation needs<br>c. power needs<br>d. None of these  | 1 |

- 6 Given below are the names of the inventors in Column I and their invention in Column II.

Match them correctly:

1

Column I	Column I
I. Wilhem Roentgen	A. Penicillin
II. Percy Spencers	B. The Pacemakers
III. John Hopps	C. Microwave ovens
IV. Sir Alexander Fleming	D. X-rays

- a. I-D, II-C, III-B, IV-A  
b. I-C, II-D, III-B, IV-A  
c. I-B, II-A, III-C, IV-D  
d. I-B, II-A, III-D, IV-B

- 7 Read the statements below and choose the correct alternative among those given below:

**Assertion (A):** Idea must be converted into a Business plan

**Reason (R):** With a good team a right leadership is essential to convert an idea into opportunity.

1

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

- 8 'Entrepreneurship are innovators, who use the process of entrepreneurship to shatter the status quo of the existing products and services, to set new products, new services.' It is said by:

1

- a. Frederick Harbison  
b. BF Hoselitz  
c. B Higgins  
d. Joseph Schumpeter

- 9 Entrepreneurs value outstanding performance, one of the behavioural skills necessary is the sensitivity to and concern standards and quality of work. One develops skill of comparing the quality of the product/services with certain standards, which he/she himself evokes or are the set of others.

1

Which of the following competency of an entrepreneur is highlighted in the above lines?

- a. Persistence  
b. Systematic Planning  
c. Information Seeking  
d. Quality Performance

- 10 Autonomy of entrepreneur refers to:

- a. Independence or ownership  
b. Innovativeness and creativity  
c. Quest for outstanding performance  
d. Respect for work

1

- 11 Google, Facebook and Twitter help the businesses to better understand what their customers need. These highlight the importance of:

1

- a. Business intelligence  
b. Cloud computing  
c. Artificial intelligence  
d. Social media

- 12 These individuals can work independently but even more important can work seamlessly as part of an integrated team structure and also effectively embrace and embody the culture of host organization. Who are they?

1

- a. Business owners  
b. Intrapreneur  
c. Entrepreneur  
d. None of the above

- 13 Ajay and Vijay are arguing on the fact that there is no difference between the objective of entrepreneur and social entrepreneur. Ajay is of the view that the final objective of social entrepreneur is wealth creation but Vijay is of the view that for social entrepreneur wealth creation is a means to end.

1

Who is correct?

- a. Ajay  
b. Vijay  
c. Both Ajay and Vijay  
d. None of the two

- 14 The last step to generate ideas and first step in a business plan is:  
 a. Costing b. Feasibility report 1  
 c. Sources of input d. Market Research
- 15 An accidental invention it wasn't until 1906 that this famous product was made available to the general public:  
 Which product is talked about here? 1  
 a.KFC- Kentucky Fried Chicken. b.Kellogg's Corn Flakes.  
 c.Lijat Papad. d.Potato chips
- 16 Which of the following is not a component of Production Plan.  
 a. Source of capital b. Details of manufacturing. 1  
 c. Types of plant and machinery d. Raw materials to be used
- 17 Read the statements below and choose the correct alternative among those given below:  
**Assertion (A):** Values are beliefs that guide actions and judgement across a variety of situations. 1  
**Reason (R):** They are the set of beliefs that provide standards which guide behaviour.  
 a. Both Assertion (A) and reason (R) are true  
 b. Both Assertion (A) and reason (R) are false  
 c. Assertion (A) is true, but Reason (R) is false.  
 d. Assertion (A) is false, but Reason (R) is true.
- 18 The entrepreneur is the actor and entrepreneurship is the act. The outcome of act actor and the act is called ..... 1  
 a. Business b. Innovation  
 c. Discovery d. Enterprise
- PART B**
- 19 Mention the contributions made by Dr.Verghese Kurien and Nand Kishore Chaudhary as social entrepreneurs. 2
- 20 State any two purposes a business plan can serve. 2
- 21 Mention in brief the role played by entrepreneur as that of a problem solver.  
 OR  
 How does social media influence entrepreneurship? 2
- 22 Mention the circumstances that can be act as an inducement for a prospective entrepreneur. 2
- 23 Enlist two misconceptions about a great idea?  
 OR 2
- 24 Briefly explain any two importance of evaluating ideas.  
 Differentiate between Fabian and Drone Entrepreneurs.  
 OR  
 "Attitude is not by birth, it is acquired". Explain in brief. 2
- PART C**
- 25 Why is ethics important to an entrepreneur? Mention any four ethical standards that entrepreneur should follow in their business practices. 3  
 OR  
 Briefly explain any three essential attitudes of an entrepreneur.
- 26 State any three features of Feasibility Study. 3
- 27 Rakesh runs a high – end boutique. With growing competition from readymade clothes, he decided to venture into the field of e-commerce, trading in the handicrafts of our country. Suggest him of the role following three technological advancements can play in his business. 3  
 i. Smart Mobility.  
 ii. Business Intelligence.  
 iii. Cloud computing.



- 28 Discuss any three ways to generate ideas. 3
- 29 Discuss briefly the following characteristics of social entrepreneurs.  
i. Opportunity Seeking  
ii. Socially Aware  
iii. Accountable 3
- OR
- (a) Write any one difference between entrepreneur and social entrepreneur.  
(b) Why is there a growing need for Social Entrepreneurs?
- PART D**
- 30 “With the change in Government at the Centre, the Prime Minister of India, introduced several new incentives for entrepreneurs including the implementation of GST saying that the entrepreneurship is the need of the hour”.  
In the light of the given statement justify the need of entrepreneurship for a country. 5
- OR
- a) How much finance does a typical start up require to get going? 1+4=5  
b) State and explain any four advantages of entrepreneurship.
- 31 ‘Competencies is a set of defined behaviour’. State any five competencies that an entrepreneur requires to develop. 5
- 32 Vardaan is planning to start a new business by opening a jewellery shop in an up-market mall.  
Which management tool will help him by providing him a blueprint of the operations to be performed while opening the jewellery shop. Help him in drafting its any four key points. 5
- OR
- Although, there is no singular process to manage the execution of a business plan, there are basic processes and fundamentals to be followed.  
Discuss them.
- 33 What is a feasibility study? Discuss about the different types of feasibility study. 5
- 34 ‘Starting a venture is not an easy task. A series of activities needs to be planned and undertaken to create an enterprise’. Discuss first five activities that needs to be followed in the following process. 5

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

## HALF YEARLY EXAMINATION

SESSION: 2023 – 2024

CLASS: XI

MAXIMUM MARKS: 70

SUBJECT: GEOGRAPHY (029)

TIME: 3 HOURS

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### General Instructions:

1. This question paper contains 30 questions. All questions are compulsory.
  2. This question paper is divided into five sections. Sections-A, B, C, D and E.
  3. Section A - Question number 1 to 17 are Multiple Choice type questions carrying 1 mark each.
  4. Section B- Question number 18 and 19 are Source based questions carrying 3 marks each.
  5. Section C- Question number 20 to 23 are Short Answer type questions carrying 3 marks each. Answer to these questions shall be written in 80 to 100 words.
  6. Section D Question number 24 to 28 are Long Answer type questions carrying 5 marks each. Answer to these questions shall be written in 120 to 150 words.
  7. Section E Question number 29 and 30 are Map based questions.
- 

### SECTION A

Question Numbers 1 to 17 are MCQS.

- 1 Identify the Person from the following who said that 'Geography is concerned with the description and explanation of the areal differentiation of the earth's surface.' 1  
A. Herodotus  
B. Eratosthenes  
C. Richard Hartshorne  
D. Galileo
- 2 Consider the following statements regarding Geography as a discipline 1  
I. Geography is focused on understanding the relationship between man and nature.  
II. The word geography was first used by the Greek scholar Eratosthenes in the 3<sup>rd</sup> century BC.  
III. The focus of geography is on the earth surface as the world of man.  
Select the correct answer using codes given below:  
A. I and II  
B. II and III  
C. I and III  
D. I, II and III
- 3 Who among the following propounded the Nebular hypothesis? 1  
A. Laplace  
B. Otto Schmidt  
C. Carl Weizsacker  
D. Immanuel Kant
- 4 Identify the landform formed when the lava solidifies almost perpendicular to the ground. 1  
A) Laccoliths  
B) Batholiths  
C) Sill  
D) Dike

- 5 Highest amount of physical destruction is mainly caused by, which of the following seismic waves? 1
- S-waves
  - P-waves
  - L-waves
  - Both P and S waves
- 6 Consider the following statements and choose the most correct option given below: 1
- The Circum-Pacific belt is highly prone to the occurrence of earthquake because it is a zone of :-
- Young fold mountains
  - Active volcanoes
  - Divergent plate boundary
  - Convergent plate boundary
- I, II and III
  - I, II and IV
  - II and III
  - I, III and IV
- 7 The weathering process in which layers of rocks peel off as expansion alternates with contraction is known as :- 1
- Shattering
  - Block separation
  - Granular disintegration
  - Exfoliation
- 8 Which of the following Statements is **incorrect**? 1
- Limestone is both porous and permeable.
  - Limestone consists chiefly of insoluble calcium carbonate
  - Karst landscape is well developed in Balkan region surrounding Adriatic Sea.
  - A rock which is permeable does not get saturated by water.
- 9 Which of the following landforms is NOT formed by Erosional action of wind? 1
- Mushroom Rock
  - Playa
  - Pediments
  - Sand dunes
- 10 There are two statements marked as Assertion(A) and Reason(R). Mark your answer as per the codes provided below:- 1
- Assertion (A):** The continental drift theory claimed that the changes in the appearance of the earth were largely due to shifting of continents.
- Reason (R):** The shifting of continents are caused by gravitation forces and tidal forces.
- Options**
- Both A and R are true and R is the correct explanation of A
  - Both A and R are true, but R is not the correct explanation of A
  - A is true, but R is false
  - A is false, but R is true

- 11 There are two statements marked as Assertion(A) and Reason(R). Mark your answer as per the codes provided below. 1

**Assertion (A):-** Endogenic processes are termed as constructional processes.

**Reason(R):-** Volcanism and Earthquake leads to increased elevation of surficial landforms.

**Options**

- A. Both A and R are true and R is the correct explanation of A  
B. Both A and R are true, but R is not the correct explanation of A  
C. A is true, but R is false  
D. A is false, but R is true
- 12 If you are travelling from South to North in Himalayan Mountain, find out the correct sequence of mountain ranges you will pass through. 1
- A. Shiwalik, Pirpanjal, Ladakh and Zaskar  
B. Pirpanjal, Zaskar, Ladakh and Karakoram  
C. Karakoram, Ladakh, Zaskar and Pirpanjal  
D. Shiwalik, Zaskar, Pirpanjal and Ladakh
- 13 Match column I with column II and choose the correct option. 1

COLUMN I	COLUMN II
i) Indus	a) Tungabhadra
ii) Brahmaputra	b) Beas
iii) Krishna	c) Dhansari

- A. i - a, ii - b, iii - c  
B. i - c, ii - a, iii - b  
C. i - b, ii - c, iii - a  
D. i - c, ii - b, iii - a
- 14 Which of the following statements is **NOT** Correct? 1
- A. During winter months, India experiences cyclonic rainfall.  
B. North West Rajasthan receives heavy rain during winter which is very favourable for wheat production.  
C. Western disturbances come in India along the path of subtropical westerly jet streams.  
D. Nor-wester causes heavy rain and thunder in the east and eastern part of India during Pre-Monsoon.

**Read the following passage carefully and answer the following questions from 15-17**

By the end of September, the Southwest monsoon becomes weak as the low pressure trough of the Ganga plain starts moving South ward in response to the southward march of the Sun. It withdraws from Rajasthan, Gujarat, Western Ganga plain and the central highlands by the end of the month. By the beginning of October, the low pressure covers Northern parts of the Bay of Bengal and by early November, it moves over Karnataka and Tamil Nadu. By the middle of December, the centre of low pressure is completely removed from the Peninsula.

During that early October, the land is still moist. Owing to the conditions of high temperature and humidity, the weather becomes rather oppressive. In the second half of October, the Mercury begins to fall rapidly, particularly in Northern India. Rain in this season is associated with the passage of cyclonic depressions which originate over the Andaman Sea and manage to cross the eastern coast of the southern Peninsula. Weather in this season is dry in north India but it is associated with rain in the eastern part of the Peninsula. Here, October and November are the rainiest months of the year. These tropical cyclones are very destructive.

- 15 Which season is depicted from the above passage? 1  
 A. South-West Monsoon season  
 B. Retreating Monsoon season  
 C. Pre-Monsoon season  
 D. Winter Season
- 16 Hot and humid condition of first half of October is known as 1  
 A. Post Monsoonal condition  
 B. October heat  
 C. Onset of Monsoon  
 D. None of the above
- 17 Eastern part of Peninsula experienced the highest rain in which of the following two months? 1  
 A. September and October  
 B. July and August  
 C. October and November  
 D. November and December

**Section:-B**

Question number 18 and 19 are Source based questions

- 18 **Read the given Passage carefully and answer the questions that follow:**

The present composition of earth's atmosphere is chiefly contributed by nitrogen and oxygen.

There are three stages in the evolution of the present atmosphere. The first stage is marked by the loss of primordial atmosphere. In the second stage, the hot interior of the earth contributed to the evolution of the atmosphere. Finally, the composition of the atmosphere was modified by the living world through the process of photosynthesis.

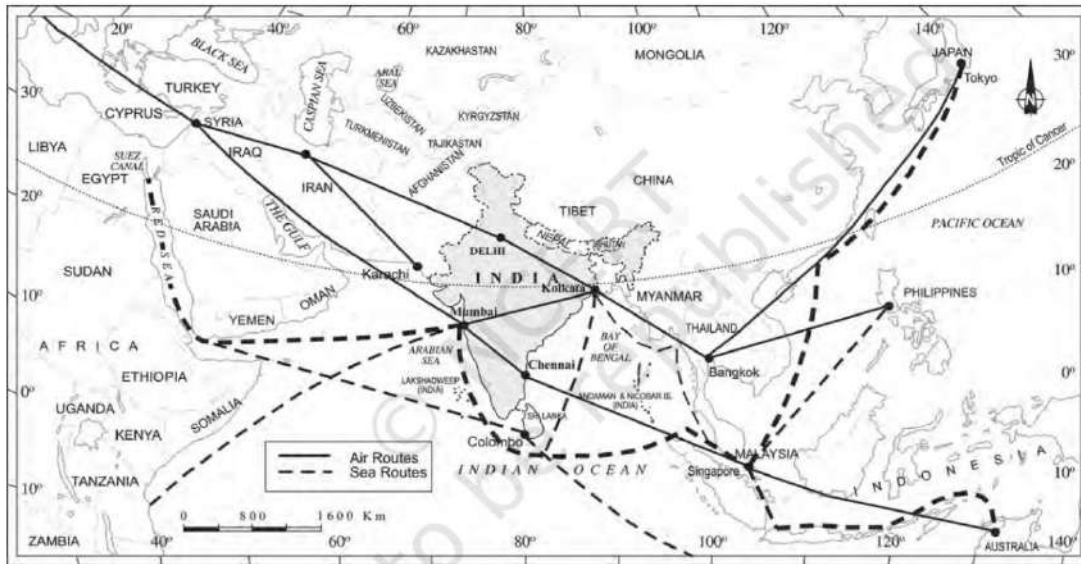
The early atmosphere, with hydrogen and helium, is supposed to have been stripped off as a result of the solar winds. This happened not only in case of the earth, but also in all the terrestrial planets, which were supposed to have lost their primordial atmosphere through the impact of solar winds.

During the cooling of the earth, gases and water vapour were released from the interior solid earth. This started the evolution of the present atmosphere. The early atmosphere largely contained water vapour, nitrogen, carbon dioxide, methane, ammonia and very little of free oxygen. The process through which the gases were outpoured from the interior is called degassing. Continuous volcanic eruptions contributed water vapour and gases to the atmosphere.

As the earth cooled, the water vapour released started getting condensed. The carbon dioxide in the atmosphere got dissolved in rainwater and the temperature further decreased causing more condensation and more rains. The rainwater falling onto the surface got collected in the depressions to give rise to oceans. The earth's oceans were formed within 500 million years from the formation of the earth.

- a. Name the process through which atmospheric gasses outpoured from earth's interior. 1  
 b. Explain how all the terrestrial planets have lost their primordial atmosphere. 1  
 c. Discuss the process of Ocean formation. 1

Observe the given map and answer the following questions:



- a. 'This maritime location of Peninsular India has provided links to its neighbouring regions' – Identify the location of India from the given map. 1
- b. Name two neighbouring island countries of India located in the Indian Ocean. 2

### Section C

Question number 20 to 23 are Short Answer type questions

- 20 Distinguish between P and S waves. 3
- 21 'A variety of evidence was offered in support of the continental drift by Alfred Wegner' – State any three evidences in support of the theory. 3

OR

'The information collected from the ocean floor mapping provided new dimensions for the study of distribution of oceans and continents.' – Briefly highlight the major findings of the Sea-floor spreading theory.

- 22 Write any three contrasting features of Bhangar and Khadar 3
- 23 'Three major geological events in the distant past have shaped the present drainage systems of Peninsular India.' – Discuss the three stages of evolution of Peninsular drainage system. 3

OR

Highlight any three differences between Himalayan and Peninsular rivers.

### Section D

Question number 24 to 28 are Long Answer type questions

- 24 'Soil is the outcome of various factors functioning together'. Name the factors responsible for the formation of soil and Explain any two active factors briefly. 1+2+2=5

OR

Discuss the different types of landslides depending upon the type of movement of materials.

- 25 Explain any three Erosional and any two depositional landforms found in the Karst topography. 3+2

OR

Discuss the various erosional and depositional landforms formed by the moving ice.

26. Make a comparative study between the Eastern and Western Coastal plain. 5
27. Give a brief account on one of the largest river system of India i.e. Indus River system 5  
under the following Heads:  
Origin, Length, Flowing Area/region, Tributaries and Destination.
28. Define Western Cyclonic Disturbance and highlight the pressure and wind condition of the 1+4  
winter season in India.

OR

‘India’s climate is controlled by a number of factors.’ Explain them briefly.

### **Section – E**

Question numbers 29 & 30 are Map based questions having 5 sub-parts each

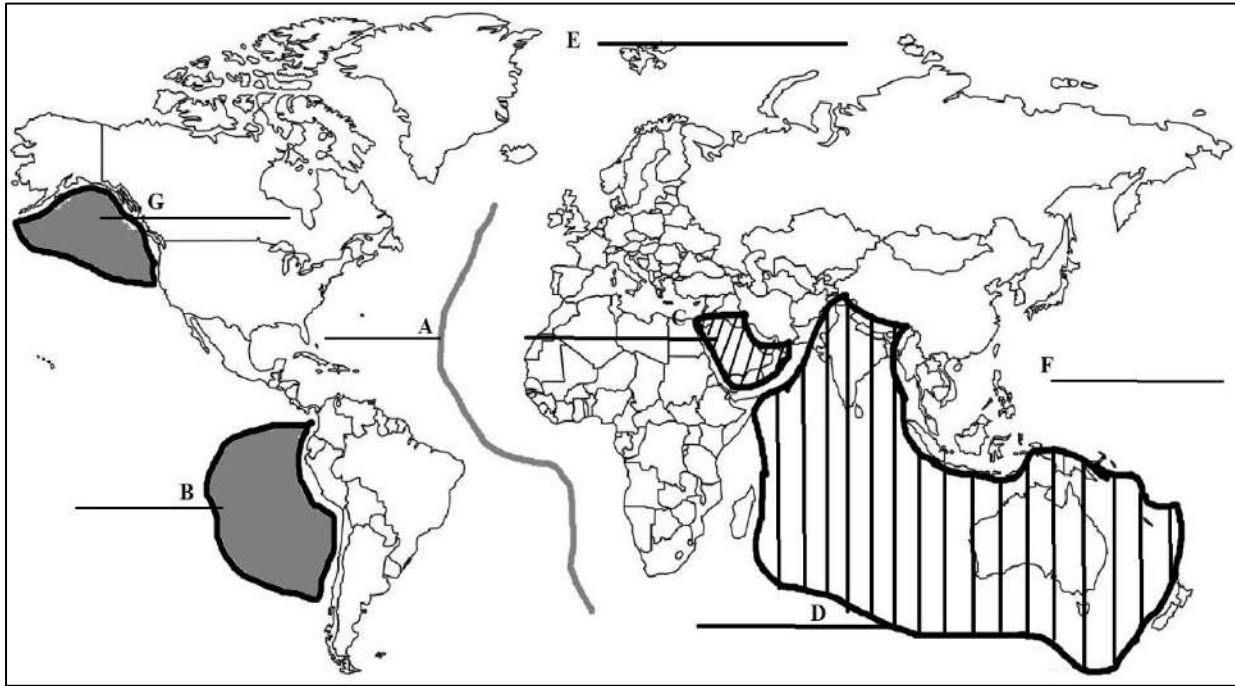
29. On the given political map of the World, seven geographical features are marked as A, B, C, D, E, F and G. Identify **any five** with the help of the following information and write their correct names on the lines drawn near each feature. 5
- A. Interconnected chain of mountain system of the ocean
  - B. A Minor Lithospheric Plate
  - C. A Minor Lithospheric Plate
  - D. A Major Lithospheric Plate
  - E. An ocean
  - F. An ocean
  - G. A Minor Lithospheric Plate
30. Locate and label **any five** of the following geographical features on the Political Outline map of India with appropriate symbols. 5
- a. Malwa Plateau
  - b. The largest river of Peninsular India
  - c. The longest west flowing river of India
  - d. Northern Circars
  - e. Largest River System of India
  - f. Khasi hills
  - g. Namcha Barwa

\*\*\*\*\* \_\_\_\_\_ \*\*\*\*\*

Name :

Invigilator's sign

Q.No.29



Q.No.30





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

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

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

*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.*

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

**SECTION –A (Employability skills)**

- Q1.** Which of these sentences are capitalized correctly? **1**
- I am a good Singer.
  - Vidya and bala are my friends.
  - My parents live in Rajasthan.
  - The bucket is Full of water.

- Q2.** Select the correct answer for the following question: **1**
- Formal greetings are used when \_\_\_\_\_.
- we meet our grandparents.
  - we meet a person like teacher or principal.
  - We meet our friends and family.
  - we meet our cousins.

OR

Which of the following is the correct way of thanking someone?

- Thank you
  - Thanks
  - I really appreciate that
  - All the above
- Q3.** Which of the given sentences shows possessive adjectives. **1**
- My uncle's bike is red in colour.
  - Mr. Sinha's sister got married last week.
  - Ravi's uncle is a doctor.
  - Sana's sister went to Germany.

- Q4.** What do you mean by routine? **1**

OR

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

- Q5.** What do you mean by a team work? **2**
- Mention any two benefits of team work.

- Q6.** Differentiate between interests and abilities. ( mention two points) **2**

- Q7.** What are the qualities of a self-motivated person? **2**

OR

State any 4 steps to build self motivation.

**SECTION – B (Subject Skill)**

**Q8.** Match column A with column B and choose the correct option. **1**

Column A	Column B
A. Telephone no. of fire station	i. 108
B. Telephone no. of ambulance	ii. severe burns and spinal injury
C. Red tag	iii. cardiac arrest and poisoning
D. Green tag	iv. 101

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

**Q9.** Arrange the following in the correct order and choose the correct option of service priority that the first aider needs to follow in an emergency situation. **1**

- i. call emergency services
- ii. check for head, neck and spinal injury
- iii. check for bleeding
- iv. determine responsiveness

- a. i, ii, iii, iv
- b. iii, ii, iv i
- c. ii, i, iv, iii
- d. iv, iii, i, ii

**Q10.** Name any two health care system or models followed in India? **1**

**Q11.** What kind of investigations are done in hematological laboratory? **1**

**Q12.** Mention any two code of conduct for General Duty Assistant. **1**

OR

Write any two set up required for a reception counter.

**Q13.** What is the normal respiration rate for an adult at rest? **1**

**Q14.** Who is a first aider? **1**

**Q15.** What is meant by admission of a patient? **1**

**Q16.** A new born has over \_\_\_\_\_ bones at the time of birth, whereas an adult has \_\_\_\_\_ bones. **1**

**Q17.** Write any one advantage of rounding by a nurse. **1**

OR

Professional, ethical or legal issues are followed and governed by which act?

**Q18.** Write the types of stretchers used for seriously ill or injured patient. **2**

**Q19.** What basic care is to be provided to a patient while feeding her/ him? (any four points) **2**

**Q20.** Name the different types of beds used in a hospitals. (any four) **2**

**Q21.** Explain the ABCD of basic life-saving steps. **2**

**Q22.** Write any four qualities of a hospital receptionist. **2**

OR

Why does a patient use call lights? (any two reason)

- Q23.** What technique is used for chest examination? **3**
- Q24.** Why is it necessary to measure the vital signs of a patient? **3**  
Mention the different ways of measuring body temperature.

- Q25.** A dead patient is brought to the hospital. What signs will you observe to declare the patient as dead? **3**

OR

A child of 5 years reports of ear pain. What procedure and precautions need to be practiced while assisting the patient in examination?

- Q26.** When is ORS given to a patient? Describe the method for making 1 litre ORS solution. **3**

- Q27.** Explain the principles of First Aid? (any three) **3**

OR

Explain any three essential duties and responsibilities of GDA as per the Indian Medical standards .

- Q28.** Once a person is declared dead the body is prepared for the last rites. **5**
- Write any four articles required for caring a dead body.
  - Explain any three procedure for care of a body after death.

- Q29.** a. Complete the given table. **5**

Ailments	Drugs
Allergies	i.
ii.	Paracetamol
Constipation	iii.
iv	flexon

- What are the symptoms for heat stroke?
- What can be the triggering factors for back pain?

OR

Describe the main functions of hospitals under the heads of restorative, preventive and training and research activities.

- Q30.** a. Differentiate between biological and chemical hazards. **5**
- State the reasons for physical hazard?
  - What are the safety hazards at a work place?

OR

Write about any five procedure that must be followed for the transportation of specimens.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION 2023-2024**

**Class: XI**  
**Subject: History**

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

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**General Instructions:**

- (i) Question paper comprises five Sections A, B, C, D and E. There are 34 questions in the question paper. All questions are compulsory.
- (ii) Section A- Question 1 to 21 are MCQs of 1 mark each.
- (iii) Section B Question no. 22 to 27 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60-80 words.
- (iv) Section C - Question no 28 to 30 are Long Answer Type Questions, carrying 8 marks each. Answer to each question should not exceed 300-350 words
- (v) Section D - Question no.31 to 33 are Source based questions with three sub questions and are of 4 marks each.
- (vi) Section-E - Question no. 34 is Map based, carrying marks that includes the identification and location of significant test items. Attach the map with the answer book.
- (vi) There is no overall choice in the question paper. However, an internal choice has been provided in few questions. Only one of the choices in such questions have to be attempted.
- (vii) In addition to this, separate instructions are given with each section and question, wherever necessary.

**Section A**

**1x21=21**

1. Identify the process of making clay tablet chronologically. **1**  
I) Once dried in the Sun The clay would Harden and tablets would be almost as indestructible as pottery.  
II) A scribe would wet clay and pat it into a size he could hold comfortably in one hand.  
III) With the Sharp end of a Reed cut obliquely he would press wedge-shaped (cuneiform) signs on to the smooth surface while it was still moist.  
IV) He would carefully smoothen its surface.  
A. II-III-IV-I      B. I-III-IV-II      C. II-IV-III-I      D. IV-III-II-I
2. With which persons, the Ancient library of Nineveh is associated ? **1**  
A. The ancient ruler of Uruk City, Enmerkar  
B. The ancient ruler of Assyria, Assurbanipal  
C. The ancient ruler of Nile City, Zimrillion  
D. The ancient ruler of Aral City, Enmerkar
3. Which of the following superstition is correct in context to the Mesopotamian Civilization? **1**  
A. A raised doorstep brought wealth  
B. A front door that did not open towards another house was unlucky  
C. The main wooden door of house opened inwards  
D. A pair of pigeon says good fortune
4. State True or False. **1**  
In the north of Mesopotamia, where animal herding offers people a better livelihood than agriculture, the first cities and writing emerged.
5. Fill in the blank: **1**  
\_\_\_\_\_ was a striking feature of Roman Empire.  
A. Covered drainage system      B. Postal system  
C. Annual festival      D. Public bath

6. Which of the following statements are correct reading that gender system in Roman Empire? 1  
 I. Prevalence of joint family.  
 II. The typical form of marriage was one where the wife transferred to her husband's authority but did not retain full rights in property of her natal family.  
 III. Divorce was relatively not easy matter.  
 IV. Males married in their late forties whereas females married off in late thirties.  
 A. I, II, III, IV                      B. II, III, IV                      C. I & III                      D. None of these
7. Which of the following statement/s is/are correct? 1  
 I. If the first and second centuries were by and large a period of peace, prosperity and economic expansion, the forth century brought the first major signs of internal strain.  
 II. Shapur II, the Iranian ruler, claimed he had annihilated a Roman army of 60,000 and even captured the eastern capital of Antioch.  
 III. The Romans were forced to abandon much of the territory beyond the Danube.  
 A. Only I                      B. I, II, III                      C. Both II & III                      D. Both I & II
8. Which of the following law referred to Roman workers being branded so they could be recognised if and when they run away and try to hide? 1  
 A. 389                      B. 398                      C. 388                      D. 399
9. State True or False. 1  
 The denarius was a Roman gold coin containing about  $4\frac{1}{2}$  gm of pure gold. \_\_\_\_\_
10. Given below are two statements, one labelled as Assertion(A) and the other labelled as Reason (R). 1  
 Assertion(A): Christianity became the official religion of Rome.  
 Reason(R): Roman emperor Justinian made Christianity as an official religion of Rome.  
 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 not correct.  
 D. (R) is correct, but (A) is not correct.
11. Identify the personality with correct option. 1



- A. Emperor Justinian , who recaptured Africa from the Vandals.  
 B. Emperor Constantine , who introduced a new denomination, the solidus, a coin of  $4\frac{1}{2}$  gm of pure gold.  
 C. Emperor Diocletian, who o fortified the frontiers, reorganised provincial boundaries, and separated civilian from military functions.  
 D. Emperor Augustus, who was called the 'Principate'.

12. Fill in the blank. 1  
 Genghis Khan commanded to plunder and destroy 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
13. State True or False. 1  
 The Mongols travelled with their herds to pasture lands and lived in tents called Gers.

14. Rearrange the statements chronologically. 1  
 I. Genghis Khan defeated the Naiman people and the powerful Jamuqa.  
 II. He was proclaimed the 'Great Khan of the Mongols' (Qa'an) with the title Genghis Khan, the 'Oceanic Khan' or 'Universal Ruler'.  
 III. Genghis Khan's wife, Borte, was kidnapped, and he had to fight to recover her.  
 IV. Genghis Khan restored old alliances with the ruler of the Kereyits, Tughril/Ong Khan.  
 A. I-III-IV-II                      B. III-IV-I-II                      C. IV-I-III-II                      D. II-I-IV-III
15. For communication and ease of travel, traders paid which of the following tax? 1  
 A. Paize                      B. Yam                      C. Baj                      D. Qanats
16. Which of the following statements are not true? 1  
 I. Mongol Khans themselves belonged to a variety of different faiths – Shaman, Buddhist, Christian and eventually Islam.  
 II. They always let their personal beliefs dictate public policy.  
 III. The Mongol rulers recruited administrators and armed contingents from people of their own groups and religions.  
 IV. There was a multiethnic, multilingual, multi-religious regime that did not feel threatened by its pluralistic constitution.  
 A. I, III                      B. II, III                      C. III, IV                      D. I, IV
17. We see the rise of absolute monarchy in Europe in the.... 1  
 A. 15th & 16th centuries.                      B. 13th & 14th centuries.  
 C. 12th & 13th centuries.                      D. 16th & 17th centuries.
18. Identify the character with the help of following information: 1  

➤ They chose not to be based in a monastery but to move from place to place.  
 ➤ Preaching to the people and living on charity.

 A. Monks                      B. Nuns                      C. Friars                      D. Knights
19. The famous book Feudal Society, which dealt with the French society, was written by: 1  
 A. James Cunnigham                      B. Alexander Cunnigham  
 C. James Bloch                      D. Marc Bloch
20. State True or False. 1  
 If a serf could stay for one year and two days without his lord discovering him, he would become a free man.
21. Given below are two statements, one labelled as Assertion(A) and the other labelled as Reason (R). 1  
 Assertion(A): The greater use of plants like peas and beans meant more vegetable proteins in the diet of the average European and a better source of fodder for their animals.  
 Reason(R): By the eleventh century with the coming of new agricultural technology there was an almost immediate increase in the amount of food produced from each unit of land.  
 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 not correct.  
 D. (R) is correct, but (A) is not correct

## SECTION B

**3x6=18**

### SHORT ANSWER TYPE QUESTIONS

22. Give a brief description on the significance of the southern region of the Mesopotamia. 3  
 OR  
 Which factors suggest that Ur was an unplanned city?
23. Enumerate the reasons of conflicts between animal herders and farmers of Mari. 3
24. What had been the strategy of Spanish to capture market for olive oil? 3
25. Write down the three major differences between Roman Empire and Iranian Empire. 3
26. Discuss some military skills that proved to be effective for Mongol success. 3
27. How did the new technology change the scenario in agriculture during 11<sup>th</sup> century? 3

**SECTION C****8x3=24****Long Answer Type Questions**

28. Describe the economic expansion of Roman Empire. **8**  
 OR  
 Define the term 'Late Antiquity'. Write down the changes occurred during the time of Constantine. **2+6**
29. In pre - industrial age of poor technological Communications, what skills were developed by the Mongols to administer and control such empire and handle diver social and religious groups? **8**  
 OR  
 "Genghis Khan has spent most of his life in military combat. His military achievements where astounding". Justify the statement and discuss his various conquests.
30. Write down the causes of the crisis of the 14<sup>th</sup> century. What were the consequences of this crisis. **8**  
 OR  
 "A small manorial estate could sustain a dozen families while large estate might include fifty or sixty". Look at the statement and discuss the features of a manorial state.

**SECTION D****4x3=12****Source Based Questions**

31. **Read the following source carefully and answer the questions that follow:** **1+1+2**  
 Doctor Galen on how Roman Cities Treated the Countryside:  
 '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 of the next year immediately after the harvest, carried off all the wheat, barley, beans and lentils, and left to the peasants various kinds of pulse- after taking quite a large proportion of these to the city. After consuming what was left in the course of the winter, the country people had to resort to unhealthy foods in the spring; they ate twigs and shoots of trees and bushes and bulbs and roots of inedible plants....'  
 (i) What did the city dwellers do? (1)  
 (ii) What does the given passage depict? (1)  
 (iii) What was the advantage living in a city? (2)
32. **Read the following source carefully and answer the questions that follow:** **1+1+2**  
 Juwaini, a late-thirteenth-century Persian chronicler of the Mongol rulers of Iran, carried an account of the capture of Bukhara in 1220. After the conquest of the city, Juwaini reported, Genghis Khan went to the festival ground where the rich residents of the city were and addressed them: 'O people know that you have committed great sins, and that the great ones among you have committed these sins. If you ask me what proof I have for these words, I say it is because I am the punishment of God. If you had not committed great sins, God would not have sent a punishment like me upon you'... Now one man had escaped from Bukhara after its capture and had come to Khurasan. He was questioned about the fate of the city and replied: They came, they [mined the walls], they burnt, they slew, they plundered and they departed.'  
 (i) By whom is the above passage written? What does he describe in it? (1)  
 (ii) What did Genghis Khan say to the conquered people? (1)  
 (iii) Write any two contributions of Genghis Khan. (2)
33. **Read the following passages and answer the questions that follow:** **1+1+2**  
 In the 12th century, Abbess Hildegard of Bengin wrote: 'Who would think of herding his entire cattle in one stable – cows, donkeys, sheep, and goats, without difference? Therefore it is necessary to establish difference among human beings, so that they do not destroy each other... God makes distinctions among his flock, in heaven as on earth. All are loved by him, there is no equality among them'  
 i) Who is the author of the passage what is the author trying to convey through this passage  
 ii) why is it necessary to established difference  
 iii) what analogue did author use to justify inequality

**SECTION E**  
**Map Based Question**

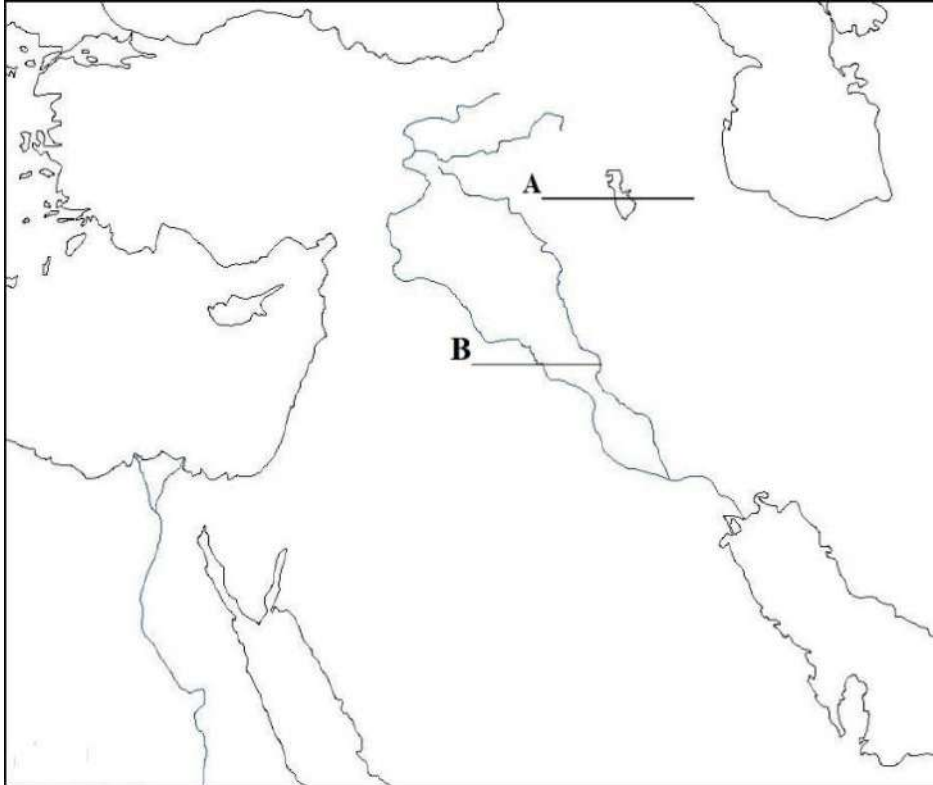
**1x5=5**

- 34.** (34.1) On the given political map of Mesopotamia, two places have been marked as A and B. Identify them and write their correct names on the lines drawn near them.

**1+1**

A- Assurbanipal (668-627 BCE), collected a library at his capital.

B. The place where the Palace of King Zimrilim was situated.



- (34.2) On the given political map, locate and label the following places-

**1+1+1**

- a) Antioch
- b) Samarkand
- c) Gaul





**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION 2023-2024**

**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**

- 1 Which type of sentences always ends with an exclamation mark?  
(A) Imperative Sentences (B) Declarative Sentences  
(C) Exclamatory Sentences (D) Interrogative Sentences
- 2 What does 'M' denote in the acronym SMART model for goal setting?  
(A) Measurable (B) Motivational  
(C) Materialistic (D) Methodical
- 3 Why is grooming so important?  
(A) To feel confident about ourselves (B) To feel superior  
(C) To understand your weakness (D) To look stylish
- 4 Exchanging information through images is known as:  
(A) Oral Communication (B) Visual Communication  
(C) Paralanguage (D) Sign Language
- 5 Differentiate between external and internal motivation.
- 6 What do you mean by phonetics.
- 7 What do you mean by diphthongs, give an example.

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

**2×2 =4**

- 8 Explain the difference between close-ended and open-ended questions with examples.
- 9 State the techniques for identifying your strength and weaknesses.
- 10 Explain the six steps for building networking skills using CONECT model

**SECTION – B MCQ (SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 13]**

**1×13 =13**

- 11 Who categorized knowledge into Tacit & Explicit?  
(A) Michael Polayani (B) Melville Louis Kossuth Dewey  
(C) S.R. Ranganathan (D) Charles Ami Cutter
- 12 In this system, a person gets education without any teacher and completes it through self-studies:  
(A) Formal Education (B) Informal Education  
(C) Non-formal Education (D) None of the above
- 13 According to S.R. Ranganathan's Colon Classification, which fundamental category uses semicolon i.e. [:] as the connecting symbol?  
(A) Matter (B) Personality (C) Space (D) Energy
- 14 How is Humanities and Social Science represented in the 6<sup>th</sup> edition of Colon Classification?  
(A) MZ (B) MZA (C) NZ (D) N
- 15 Which among these is/are functions of national library as set by UNESCO's general conference?  
(A) Compile Union catalogue (B) Produce National Bibliography  
(C) Act as a National Bibliographic Center (D) All of the above

- 16 Which law of Library Science calls for implication for use of Stack Room Guides?  
(A) First Law (B) Second Law (C) Third Law (D) Fourth Law
- 17 Which law of Library Science calls for implication of “Extension Services” to convert a library into a social centre?  
(A) First Law (B) Second Law (C) Third Law (D) Fourth Law
- 18 What is the mental process of separation or grouping referred as?  
(A) Gathering (B) Abstraction (C) Classification (D) Collection
- 19 “It is the use which is the motive of classification” was said by whom?  
(A) Ranganathan (B) Dewey (C) Richardson (D) Sayers
- 20 In DDC, the number 140 represents which class?  
(A) Ethics (B) Modern Western Philosophy  
(C) Mind and Body (D) Philosophical Systems And Doctrines
- 21 The former name of ‘National Library of India’ was:  
(A) Imperial Library (B) British Council Library  
(C) Central Library (D) Indian Library
- 22 Which edition of DDC was published in 2011?  
(A) 20th (B) 19th (C) 22nd (D) 23rd
- 23 Which edition of DDC was primarily meant for use in schools and small public libraries?  
(A) 15th (B) 19th (C) 17th (D) 23rd
- 24 Maps, atlas & globes are known as :  
(A) Graphic Materials (B) Reference Materials  
(C) Cartographic Materials (D) Archaeological Material

**SECTION – C SHORT QUESTIONS**  
**(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 8]**

**2×8 =16**

- 25 State Four functions of a library in the society.
- 26 Explain the component ‘Readers’ in light of Trinity as introduced by S.R. Ranganathan.
- 27 Write a note on Special libraries with examples.
- 28 State the objectives of a university library.
- 29 Define hybrid libraries.
- 30 Write a short note on UNESCO Public Library Manifesto.
- 31 Explain the obligation of the ‘Library Authority’ in the second law of library science.
- 32 What is the need of a library catalogue?
- 33 Differentiate between catalogue and bibliography.

**SECTION – D LONG QUESTIONS**  
**(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 7]**

**3×7 =21**

- 34 Discuss the role of library in the moral, ideological and spiritual development.
- 35 Write down the functions of a college library.
- 36 Explain the five fundamental categories of Colon Classification.
- 37 Explain the APUPA Pattern for arrangement of document as enunciated by Ranganathan.
- 38 Write down the objectives of a library catalogue as per C.A. Cutter.
- 39 Who formulated DDC and when? name the ten main classes as per DDC.
- 40 State the salient features of DDC.
- 41 Differentiate between Knowledge and Book classification.

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

## HALF YEARLY EXAMINATION

SESSION 2023- 2024

CLASS: XI

MAXIMUM MARKS: 80

SUBJECT: MATHEMATICS (041)

TIME: 3 HOURS

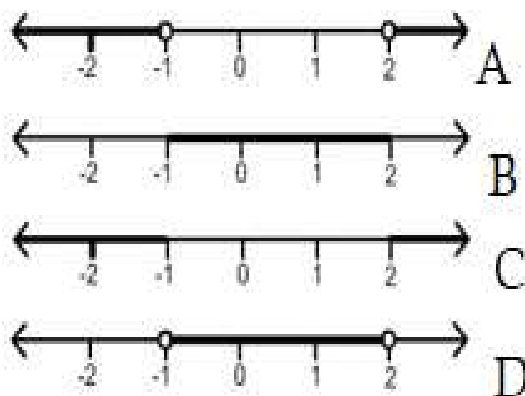
General instructions:

1. The Question paper contains 5 pages with 38 questions.
2. The Question paper contains- five sections A, B, C, D and E.  
Each section is compulsory. However, there are internal choices in some questions.
3. Section A has 18 MCQ's and 02 Assertion-Reason based questions of 1 mark each.
4. Section B has 5 very Short Answer (VSA)- type questions of 2 marks each.
5. Section C has 6 short Answer (SA)- type questions of 3 marks each.
6. Section D has 4 long Answer (LA)- type questions of 5 marks each.
7. Section E has 3 source based/case-based/passage based/integrated units of assessment of 4 marks each with sub-parts.

### SECTION A

1. In set-builder method the null set is represented by 1  
(a)  $\{ \}$  (b)  $\Phi$  (c)  $\{x : x \neq x\}$  (d)  $\{x : x = x\}$
2. If  $A = \{x : x \text{ is a multiple of } 3\}$  and  $B = \{x : x \text{ is a multiple of } 5\}$ , then  $A - B$  is 1  
(a)  $A \cap B$  (b)  $A \cap \bar{B}$  (c)  $\bar{A} \cap \bar{B}$  (d)  $\bar{A} \cap B$
3. The number of elements in the sub set of the set  $S = \{\Phi\}$  is 1  
(a) 8 (b) 4 (c) 2 (d) 1
4. If  $(x, 3y) = (4, -3)$ , then the value of  $x + 2y$  is 1  
(a) -2 (b) 2 (c) 1 (d) -6
5. If  $A = \{1, 2, 3\}$ ,  $B = \{x, y\}$ , then the number of functions that can be defined from A into B is 1  
(a) 12 (b) 8 (c) 6 (d) 3
6. If  $[x]^2 - 5[x] + 6 = 0$ , where  $[.]$  denote the greatest integer function, then 1  
(a)  $x \in [3, 4]$  (b)  $x \in (2, 3]$  (c)  $x \in [2, 3]$  (d)  $x \in [2, 4)$
7. Which of the following is correct? 1  
(a)  $\sin 1^\circ < \sin 1$  (b)  $\sin 1^\circ > \sin 1$  (c)  $\sin 1^\circ = \sin 1$  (d)  $\sin 1^\circ = \frac{\pi}{180} \sin 1$
8. The value of  $\sin 15^\circ + \cos 15^\circ$  is 1  
(a) 1 (b)  $\frac{1}{2}$  (c)  $\sqrt{\frac{3}{2}}$  (d)  $\sqrt{3}$
9. If  $\tan A = \frac{1}{2}$  and  $\tan B = \frac{1}{3}$ , then the value of  $A+B$  is 1  
(a)  $\frac{\pi}{6}$  (b)  $\pi$  (c) 0 (d)  $\frac{\pi}{4}$
10.  $\lim_{x \rightarrow 0} \frac{10^x - 2^x - 5^x + 1}{x \tan x}$  is 1  
(a)  $(\log 5)(\log 2)$  (b)  $\log 10$  (c)  $\log 7$  (d) 0

11. If  $f(x) = 1 + x + \frac{x^2}{2} + \dots + \frac{x^{100}}{100}$ , then  $f'(1)$  is equal to 1  
 (a) 0 (b) 50 (c) 100 (d) 1
12. Solve:  $4x + 7 < 6x + 3$  for real values of  $x$ . 1  
 (a)  $x \in (2, \infty)$  (b)  $x \in (-\infty, 2)$  (c)  $x \in (-2, \infty)$  (d)  $x \in (-\infty, -2)$
13. The graphical solution of  $-1 < x < 2$  on number line is 1  
 (a) A (b) B (c) C (d) D



14. The value of:  $i^{49} + i^{50} + i^{51} + i^{52}$  where  $i = \sqrt{-1}$  1  
 (a) 1 (b) 0 (c) i (d) -i
15. If  $z = a + ib$  lies on third quadrant, then  $\frac{-z}{z}$  also lies in the third quadrant if 1  
 (a)  $a > b > 0$  (b)  $a < b < 0$  (c)  $b < a < 0$  (d)  $b > a > 0$
16. Given that the general term of a sequence is represented by 1  

$$t_n = \begin{cases} n(n+2), & n \text{ is even number} \\ \frac{4n}{n^2+1}, & n \text{ is odd number} \end{cases}$$
  
 Find 15<sup>th</sup> term  
 (a) 240 (b) 255 (c)  $\frac{10}{113}$  (d)  $\frac{30}{113}$
17. If  $1/(b+c)$ ,  $1/(c+a)$ ,  $1/(a+b)$  are in AP then 1  
 (a)  $a, b, c$  are in AP (b)  $a^2, b^2, c^2$  are in AP  
 (c)  $1/a, 1/b, 1/c$  are in AP (d) None of these
18. The value of  $9^{\frac{1}{3}} \cdot 9^{\frac{1}{9}} \cdot 9^{\frac{1}{27}} \dots$  to  $\infty$  is 1  
 (a) 1 (b) 9 (c) 3 (d) 0

### ASSERTION-REASON BASED QUESTIONS

In the following questions, a statement of **Assertion (A)** is followed by a statement of **Reason (R)**. Choose the correct answer out of the following choices.

- (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.
19. Assertion (A): The domain of the real function  $f$  defined by  $f(x) = \sqrt{x-1}$  is  $x > 1$  1  
 Reason(R): The range of the function defined by  $y = \sqrt{f(x)}$  is  $[0, \infty]$

20. Assertion (A): If  $\sin x = -\frac{1}{3}$ , then  $\cos x = \frac{2\sqrt{2}}{3}$ , x lies in the 4<sup>th</sup> quadrant. 1  
Reason(R) : If the value of  $\cos x$  is positive and  $\sin x$  is negative, then  $x \in \left(\frac{3\pi}{2}, 2\pi\right)$ .

### SECTION - B

21. If  $U = \{1,2,3,4,5,6,7,8,9\}$ ,  $A = \{1,2,3,4\}$ ,  $B = \{2,4,6,8\}$ ,  $C = \{3,4,5,6\}$  find (i)  $(A \cup B)'$  2  
(ii)  $(B - C)'$

Or

If  $U = \{1,2,3,4,5,6,7,8\}$ ,  $A = \{1,2,3\}$ ,  $B = \{2,4,6\}$ ,  $C = \{3,6,9,12\}$ , verify the result  $\overline{A} \cap (B \cup C) = (\overline{A} \cap B) \cup (\overline{A} \cap C)$

22. Solve:  $5x-3 < 3x+1$  when (i) x is a real number (ii) x is a natural number. 2

23. Find the real numbers x and y, if  $(x-iy)(3+5i)$  is the conjugate of  $-6-24i$  2

Or

Find non-zero integral solutions of  $|1-i|^x = 2^x$

24. Prove that:  $\frac{\cos 4x + \cos 3x + \cos 2x}{\sin 4x + \sin 3x + \sin 2x} = \cot 3x$  2

25. If a, b, c are in G.P and  $a^{1/x} = b^{1/y} = c^{1/z}$ , prove that x, y, z are in A.P. 2

### SECTION-C

26. A, B and C are subsets of Universal Set If  $A = \{2, 4, 6, 8, 12, 20\}$ , 3  
 $B = \{3, 6, 9, 12, 15\}$ ,  $C = \{5, 10, 15, 20\}$  and U is the set of all whole numbers, draw a Venn diagram showing the relation of U, A, B and C. Also find  $A - B$  and  $A \cap B \cap C$ .

Or

Let A, B and C be the sets such that  $A \cup B = A \cup C$  and  $A \cap B = A \cap C$ . Show that  $B = C$ .

27. Find the linear relation between the components of the ordered pairs of the relation R 3  
where  $R = \{(2,1), (4,7), (1, -2), \dots\}$

28. Find  $\sin \frac{x}{2}$ ,  $\cos \frac{x}{2}$  and  $\tan \frac{x}{2}$  when  $\tan x = \frac{-4}{3}$ , x is in quadrant II. 3

Or

If  $\sin \theta = n \sin(\theta + 2\alpha)$ , prove that  $\tan(\theta + \alpha) = \frac{1+n}{1-n} \tan \alpha$

29. If  $y = \frac{x}{x+a}$ , prove that  $x \frac{dy}{dx} = y(1-y)$  3

30. Solve the system of inequalities in R 3

$$\frac{7x-1}{2} < -3, \quad \frac{3x+8}{5} + 11 < 0$$

and hence, represent its solution on the real number line.

Or

A manufacturer has 600 litres of a 12% solution of acid. How many litres of a 30% acid solution must be added to it so that acid contain in the resulting mixture will be more than 15% but less than 18%

31. If  $|z_1| = |z_2| = |z_3| = \dots = |z_n| = 1$  prove that, 3

$$|z_1 + z_2 + z_3 + \dots + z_n| = \left| \frac{1}{z_1} + \frac{1}{z_2} + \frac{1}{z_3} + \dots + \frac{1}{z_n} \right|$$

## SECTION-D

32. For the function  $f$ , given by  $f(x) = \sin x$ , complete the following table: 5

$x$	$-2\pi$	$-\frac{3\pi}{2}$	$-\pi$	$-\frac{\pi}{2}$	$0$	$\frac{\pi}{2}$	$\pi$	$\frac{3\pi}{2}$	$2\pi$
$f(x)$			0		0	1			

Hence, draw the graph using appropriate scale. Also find the maximum and minimum value of  $f(x)$ .

33. Prove that  $\tan 4x = \frac{4 \tan x (1 - \tan^2 x)}{1 - 6 \tan^2 x + \tan^4 x}$  5

Or

Prove that  $\cos 20^\circ \cdot \cos 40^\circ \cdot \cos 80^\circ = \frac{1}{8}$

34. Evaluate:  $\lim_{x \rightarrow \frac{\pi}{4}} \frac{\tan^3 x - \tan x}{\cos(x + \frac{\pi}{4})}$  5

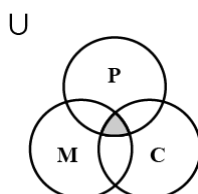
Or

Find the derivative of the function  $f(x) = \sqrt{\sin x}$  w.r.t.  $x$  from first principle.

35. The sum of two numbers is 6 times their geometric means, show that the numbers are in the ratio  $(3 + 2\sqrt{2}) : (3 - 2\sqrt{2})$  5

## SECTION-E

36. In a survey of 40 students, it was found that 21 had taken Mathematics, 16 had taken Physics and 15 taken Chemistry, 7 had taken Mathematics and Chemistry, 12 had taken Mathematics and Physics, 5 had taken Physics and Chemistry and 4 had taken all the three subjects.



Based on the above information, answer the following questions:

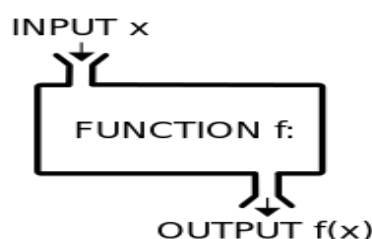
- (i) Find the number of students who had taken Mathematics only. 1
- (ii) Find the number of students who had taken Physics and Chemistry but not Mathematics. 1
- (iii) Find the number of students who had taken at least one of the three subjects.

Or

Find the number of students who had taken none of the subjects. 2

37. A relation  $f$  from a non-empty set  $A$  to a non-empty set  $B$  is said to be a function, if every element of set  $A$  has one and only one image in set  $B$ .

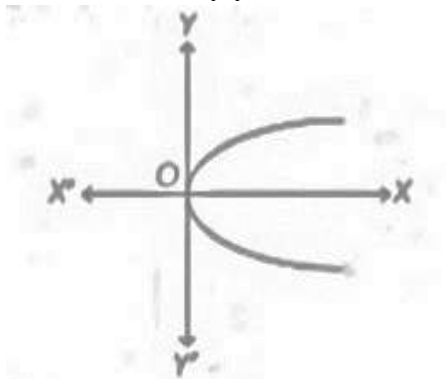
If  $f$  is a function from a set  $A$  to a set  $B$ , then we write  $f: A \rightarrow B$  and it is read as  $f$  is a function from  $A$  to  $B$  or  $f$  maps  $A$  to  $B$ .



Based on the above information, answer the following questions:

- (i) Is the given curve a function? Justify your answer.

1



- (ii) If  $f(x)=x^2+2x+3$ , then write the maximum value among of  $f(1)$ ,  $f(2)$ ,  $f(3)$ .

1

- (iii) If  $f(1+x) = x^2+1$ , then find  $f(2-h)$

Or

2

If  $f(x) = \frac{|x-4|}{x-4}$ . Then find the range of  $f$ .

- 38 An auditorium has 12 seats in the first row, 24 seats in the second row and 48 seats in the third row and so on.



Based on the above information, answer the following questions:

- (i) If in the last row of the auditorium there are 6144 seats then how many rows are there in the auditorium?
- (ii) Find the total number of seats in the auditorium?

2

2

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# D.A.V INSTITUTIONS, WEST BENGAL ZONE

## HALF YEARY EXAMINATION

SESSION : 2023- 2024

**Class : XI**

**Maximum Marks : 30**

**Subject : Painting**

**Time : 2 Hours**

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### Geneal Instructions

- Section – A - Attempt all Questions ( Each Question will carry 1 mark)
- Section – B - Attempt all Questions ( Each Question will carry 2 marks)
- Section – C - Attempt all Questions ( Each Question will carry 6 marks)

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### SECTION – A

1. Which of the following medium were used in the Pre-historic rock painting “Wizard’s Dance”? 1
  - a) Earth colours
  - b) Mineral colours
  - c) Natural colours
  - d) Water colours
2. Which of the following important site of Indus Valley Civilization was excavated in Gujarat? 1
  - a) Balathal
  - b) Ropar
  - c) Rangpur
  - d) Banawali
3. In which medium was the Sculpture “Chauri Bearer (Yakshini)” made? 1
  - a) Red Spotted Sand stone
  - b) White Sand Stone
  - c) Red Sand Stone
  - d) Polished Sand Stone
4. Assertion (A): The early hunter-gatherer were nomads & used to move to new areas. 1  
Reason (R): They could not find sufficient food and water.
  - a) Both A and R are true, and R is the correct explanation of A
  - b) Both A and R are true, and R is not the correct explanation of A
  - c) A is true but R is false
  - d) A is false and R is true
5. What is the size of Indus sculpture “Male Torso” ? 1
  - a) 9.2 X 8.5 X 3.5 cm.
  - b) 9.2 X 5.8 X 0.3 cm.
  - c) 9.2 X 8.5 X 3.0 cm.
  - d) 9.2 X 5.8 X 3.0 cm.
6. Cave No. 26 is very big and carved with a variety of Buddha images. The biggest and more remarkable one is the \_\_\_\_\_ image. 1
  - a) Padmapani Bodhisattva
  - b) Vajrapani
  - c) Mara Vijay
  - d) Mahaparinirvana



7. Tirthankara Mahavira Swami is looking very calm concentrating his mind in \_\_\_\_\_ to attain enlightenment. 1
- Abhaya Mudra
  - Dhyana Mudra
  - Bhumi-sparshan Mudra
  - Padamasana Mudra
8. Assertion (A): A large number of Buddhist sculptures have been found in Mathura which was made of Sandstone. 1
- Reason (R): Sandstone were easily available in the surrounding region of Mathura.
- Both A and R are true, and R is the correct explanation of A
  - Both A and R are true, and R is not the correct explanation of A
  - A is true but R is false
  - A is false and R is true

### **SECTION – B**

9. What are the differences between Gandhar style of art and Mathura style of art ? 2
- Or
- Mention any two components of the Mauryan sculpture “Lion Capital”.
10. Write short note on the Pre-historic rock shelter “Bhimbetka Caves” 2
- Or
- Describe the rock art of Mesolithic period of Bhimbetka Caves in India.
11. Appreciate the Indus sculpture “Unicorn Bull ( Seal)” based on the following points:  $\frac{1}{2} \times 4 = 2$
- Medium of the sculpture
  - Size of the sculpture
  - Place
  - Circa
- Or
- Mention the location of two major sites and other important sites of Indus Valley Civilization.
12. Give a brief description about the Jain sculpture “Jain Tirthankara - Gupta period, Sarnath style” 2
- Or
- Mention any two characteristics of the Mauryan statue “Chauri Bearer ( Yakshini)”
13. When was Ajanta Caves constructed ? What do you know about Vakataka period and Satvahana period ? 1+1= 2
- Or
- Mention any two main features of the Ajanta Caves.

### **SECTION – C**

14. Write an essay on the Pre-historic rock paintings and rock shelters in India. 6
- Or
- Write an essay on the Buddhist sculpture “Seated Buddha-Katra Mound, Mathura style ( Kushan Period)”.
15. Where is Ajanta caves located ? How many caves have been discovered ? Describe the main features of Ajanta paintings. 1+1+4 = 6

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION 2023 – 2024**

**Class: XI**

**Subject: Physical Education**

**Maximum Marks: 70**

**Time: 3 Hours.**

**General Instructions:**

1. The question paper consists of 5 sections and 34 Questions.
2. Section A consists of Question 1 – 18 carrying 1 mark each and is multiple choice questions. All questions are compulsory.
3. Section B consists of Question 19 – 23 carrying 2 marks each and is very short answer type and should not exceed 60 – 90 words. **There is internal choice available.**
4. Section C consist of Question 24 – 28 carrying 3 marks each and are short answer type and should not exceed 100 – 150 words. **There is internal choice available.**
5. Section D consists of Question 29 – 31 carrying 4 marks each and is case studies.
6. Section E consists of Question 32 – 34 carrying 5 marks each and are short answer types and should not exceed 200 – 300 words. **There is internal choice available.**

**SECTION – A**

1. Identify the sports equipment. 1



- A). GPS  
C). Wrist band  
B). Mask  
D). Shin Guard

2. Identify the Pranayama:- 1



- A). Bhastrika Pranayama  
C). Sitali Pranayama  
B). Bhramari Pranayama  
D). Kapalbhati Pranayama

3. Which of the following tournament, is played on clay court? 1

- A). Australian Open  
C). US Open  
B). French Open  
D). The Wimbledon

4. Inclusion is needed to.... 1

- A). social development of CWSN  
C). improve academic performance  
B). increase motion skills  
D). All of these.

5. Every year Disability Day is celebrated on - 1

- A). December 3  
C). December 5  
B). December 4  
D). December 6

6. Time taken to start a movement, once the senses signal the need to move is called 1

- A). Agility  
C). Reaction time  
B). Speed  
D). Strength

7. A healthy amount of fat for men is \_\_\_\_\_. 1  
 A). 20% - 25% B). 23% - 27%  
 C). 15% - 18% D). 25% - 30%
8. In which year was the Olympic flag first hoisted? 1  
 A). 1886 B). 1920  
 C). 1948 D). 1904
9. What are the colours of Olympic rings situated at the bottom of the Olympics Symbol? 1  
 A). Yellow and green. B). Black and green.  
 C). Red and Black. D). Yellow and black
10. Which of the following is not a part of Yama? 1  
 A). Sataya B). Aprigrah  
 C). Asteya D). Santosh
11. What career option is NOT typically associated with Physical Education? 1  
 A). Sports nutritionist B). Fitness trainer  
 C). Social media influencer D). Physical therapist
12. Adapted Sports are designed to: 1  
 A). Replace traditional sports activities  
 B). Be played only by students with disabilities  
 C). Modify sports to make them accessible to individuals with disabilities  
 D). Eliminate the competitive element from sports
13. Which is NOT a health related Physical Fitness component? 1  
 A). Muscular endurance B). Cardio respiratory endurance  
 C). Speed D). Flexibility
14. What do you mean by NOC? 1  
 A). National Olympic Committee B). National Olympic Congress  
 C). National Olympic Course D). National Olympic Community
15. 1



Identify the asana :

- A) Vajrasana B) Halasana  
 C) Gamukhasana D) Mayurasana
16. The state of being healthy and free from diseases is called as \_\_\_\_\_. 1  
 A). Physical Fitness B). Healthy Body  
 C). Wellness D). Body Composition
17. Given below are the two statements labelled as assertion (A) and Reason (R). 1  
 Assertion (A): Adaptive physical education is required to be customized to individual needs.  
 Reason (R): No two people suffer from absolutely identical physical and mental illness.  
 A). A is correct but R is incorrect  
 B). Both A and R are correct  
 C). A is incorrect but R is correct  
 D). Both A and R are incorrect

18. Assertion (A) International Olympic Committee only organises Summer Olympics. 1  
Reason (R) Olympics promotes cooperation, brotherhood and friendship between countries. In the context of above two statements, which one of the following is correct?  
Codes:  
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

19. Write down Olympic Oath. 2  
20. How can we define Adaptive Physical Education? 2  
21. What is the meaning of Wellness? 2  
22. Define "Pranayama" and mention its potential benefits. 2  
23. How are wearable gears help us in sports? 2

OR

Define muscular strength and speed.

### SECTION – C

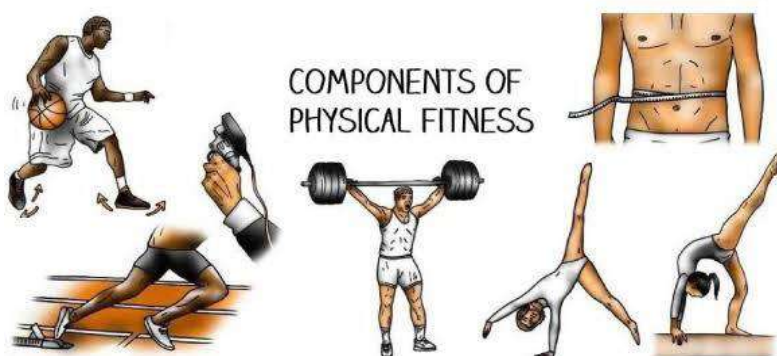
24. Define 'Disability'. What are the types of disability? Explain briefly. 3  
25. Enlist the components of Health-Related Fitness and explain any two of them. 3  
26. What are the main features of the Olympic Flag? 3  
27. What is the role of Yoga in reducing stress? 3  
28. Write a short note on 'Khelo India Program'. 3

OR

Describe briefly the three career opportunities available in the field of Physical Education.

### SECTION – D

29. Case Based: 4



On the basis of given information answer the following questions:-

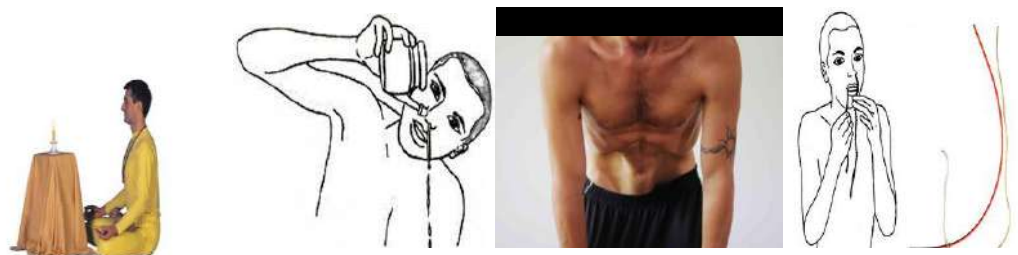
1. Name any one exercise for enhanced Explosive Strength.
2. Name any one exercise for enhanced Muscular Endurance.
3. \_\_\_\_\_ is the range of movement of joints
4. \_\_\_\_\_ is the ability to overcome resistance



**On the basis of this chapter answer the following questions.**

- (i) List down any four types of Physical Disabilities.
- (ii) What is Down Syndrome?
- (iii) What is APE?
- (iv) List any four aims of APE.

31.



4

A) \_\_\_\_\_ B) \_\_\_\_\_ C) \_\_\_\_\_ D) \_\_\_\_\_

Identify the Yogic Kriyas and Write their Names.

### SECTION – E

32. Briefly explain the aims and objectives of Physical Education. (Write 5 points) 5
33. Define Yoga. Explain the importance of Yoga. (Write any 4 points) 5
34. Explain the role and functions of the International Olympic Committee (IOC) in the context of the Olympic Games and the global sports community. 5

**OR**

Explain the 'PRICE' procedure as a treatment of Sports Injuries.

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**D.A.V. INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION 2023-2024**

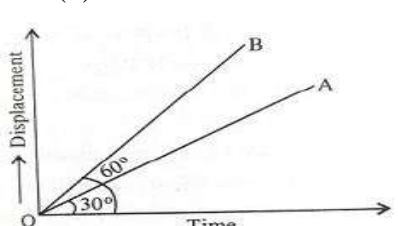
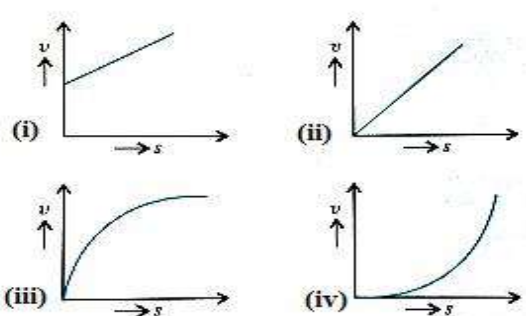
**Class: XI**  
**Subject: Physics**

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

**General instructions:**

- (1) There are 33 questions in all. All questions are compulsory.
- (2) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
- (3) All the sections are compulsory.
- (4) Section A contains sixteen questions, twelve MCQ and four Assertion Reasoning based of 1 mark each, Section B contains five questions of two marks each, Section C contains seven questions of three marks each, Section D contains two case study-based questions of four marks each and Section E contains three long answer questions of five marks each.
- (5) There is no overall choice. However, an internal choice has been provided in one question in Section B, one question in Section C, one question in each CBQ in Section D and all three questions in Section E. You have to attempt only one of the choices in such questions.

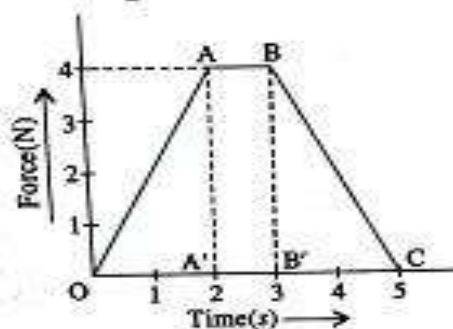
**Section-A**

- 1 What is the dimension of electrical resistance? 1  
 (a)  $[MLTA^{-1}]$  (b)  $[M^1L^{-2}T^{-3}A]$  (c)  $[ML^2T^{-3}A^{-2}]$  (d)  $[MLT]$
  - 2 The damping force of an oscillator is proportional to its velocity. The unit of the proportionality constant is- 1  
 (a) m/s (b) kg-m/s (c) kg/s (d) kg –s
  - 3 The displacement of a particle moving in a straight line is given by expression  $x = At^3 + Bt^2 + Ct + D$  in metre, where t is in second and A, B, C and D are constants. Find the ratio between initial acceleration to initial velocity. 1  
 (a)  $2C/B$  (b)  $C/2B$  (c)  $2A/C$  (d)  $2B/C$
  - 4 The ratio of velocity of object A to the velocity of object B from the graph is- 1  
 (a) 1:1  
 (b) 1:2  
 (c) 1:3  
 (d) 1:4
- 
- 5 Starting from rest a body moves with constant acceleration in a straight line. The variation of speed with distance is given by- 1  
 (a) (i)  
 (b) (ii)  
 (c) (iii)  
 (d) (iv)
- 
- 6 Two vectors have a resultant equal to each of them. The angle between them is- 1  
 (a)  $60^\circ$  (b)  $90^\circ$  (c)  $120^\circ$  (d)  $180^\circ$
  - 7 At the upper most point of a projectile, its velocity and acceleration are at an angle of- 1  
 (a)  $0^\circ$  (b)  $45^\circ$  (c)  $90^\circ$  (d)  $180^\circ$
  - 8 A gun fires a bullet of mass 50 g with a velocity of 30 m/s. If the recoil velocity of the gun is 1 m/s, the mass of the gun is- 1  
 (a) 5.5 kg (b) 3.5 kg (c) 1.5 kg (d) 0.5 kg

- 9 A ten paise coin, placed on a revolving table flies off tangentially. This is due to 1  
 (a) Inertia of rest (b) Inertia of motion  
 (c) Inertia of direction (d) None of the above

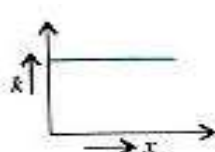
- 10 A force, acting on a body of mass 2 kg at rest, varies with time as shown in the figure. Calculate impulse of the force. 1

- (a) 15 kgm/s (b) 12 kgm/s  
 (c) 8 kgm/s (d) 20 kgm/s

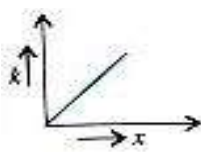


- 11 If the kinetic energy of a given body becomes four times of its initial value, then new momentum will 1  
 (a) becomes four times of its initial value  
 (b) becomes three times of its initial value  
 (c) becomes two times of its initial value  
 (d) remains constant

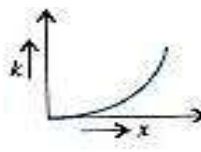
- 12 A body moves from rest with constant acceleration. The variation of kinetic energy with distance is- 1



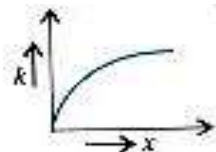
(a)



(b)



(c)



(d)

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

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

- 13 **Assertion:** A body can have acceleration even if its velocity is zero at that instant of time. 1

**Reason:** The body will be momentarily at rest when it reverses its direction of motion.

- 14 **Assertion:** For angular projection, when  $\theta = \tan^{-1} 1$ , the horizontal range is four times the maximum height. 1

**Reason:** The horizontal range of projectile is directly proportional to square of velocity and inversely proportional to acceleration due to gravity.

- 15 **Assertion:** A block is being pulled over a horizontal frictionless plane with the help of a thick string. The tension at all points on the string is not same. 1

**Reason:** The tension on the string depends on the mass of the string and the acceleration of the combined block and string system.

- 16 **Assertion:** Centripetal force does not change the kinetic energy of moving object. 1

**Reason:** Centripetal force is always perpendicular to the displacement.



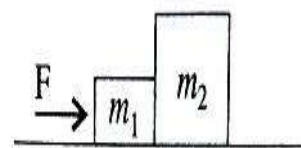
### Section-B

- 17 The mass and radius of the earth is  $5.975 \times 10^{24}$  kg and  $6.37 \times 10^6$  m respectively. Calculate earth's average density to correct significant figures. 2
- 18 If it is safe to jump from a height of 2 m on the earth then what would be the safe height on a planet where the value of acceleration due to gravity is  $g/4$ ? ( $g$  = acceleration due to gravity on the earth) 2

OR

A particle moving in one dimension with a constant acceleration of  $2 \text{ m/s}^2$  is observed to cover a distance of 5 m during a particular interval of 1 s. Find the distance covered by the particle in the next 1 s interval.

- 19 Three forces  $F_1$ ,  $F_2$  and  $F_3$  are acting on a particle of mass  $m$  such that  $F_2$  and  $F_3$  are mutually perpendicular and the particle is at rest under their effect. What will be acceleration if  $F_1$  is removed? 2
- 20 Two blocks are pushed by a force  $F$  as shown in the figure. Find the force at their common interface. 2



- 21 A bus and a car are moving with same kinetic energy on a straight road. Which one will stop at a lesser distance if their engines are switched off simultaneously? 2

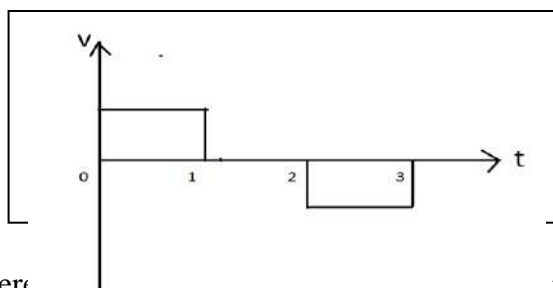
### Section-C

- 22 The frequency  $n$  of vibration of stretched string depends upon its length  $l$ , mass per unit length  $m$  and tension  $T$  in the string. Obtain dimensionally the expression for frequency  $n$ . 3

- 23 (i) The velocity-time graph of a particle is shown here. Draw its displacement-time graph.

(ii) Obtain the expression

$2aS = v^2 - u^2$  by calculus method. (Where the symbols have their usual meanings).



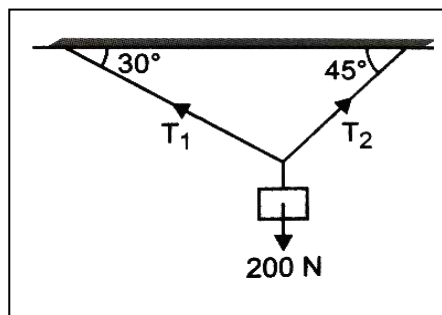
- 24 A stone falls freely from rest. The distance covered is equal to the distance covered by it in the first three seconds of its motion. How long the stone will remain in air? 3
- 25 (i) If the angle between the vectors  $\mathbf{A}$  and  $\mathbf{B}$  is  $\theta$  then find the angle between  $(\mathbf{A} \times \mathbf{B})$  and  $\mathbf{A}$ . 3
- (ii) The resultant of two vectors  $\mathbf{P}$  and  $\mathbf{Q}$  is  $\mathbf{R}$ . If the vector  $\mathbf{Q}$  is reversed, then the resultant becomes  $\mathbf{S}$ , show that  $R^2 + S^2 = 2(P^2 + Q^2)$



- 26 (i) If a ball is thrown up in a train which is accelerating, will the ball return to the person's hand? Justify your answer.

3

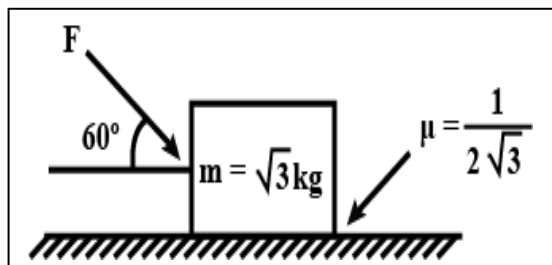
- (ii) A body of weight 200 N is suspended as shown in the figure. Find the tension  $T_1$  and  $T_2$ .



OR

- (i) Why is greater force required to push an object than to pull it?

- (ii) What is the maximum value of the force  $F$  such that the block shown in the diagram does not move?



- 27 (i) Can a body have mechanical energy without momentum? Explain.  
 (ii) A force  $F = p + qx$  acts on a particle in the  $x$  axis, where  $p$  and  $q$  are constants. What will be the work done by this force for a displacement from  $x = 0$  to  $x = d$ ?
- 28 (i) Define spring constant.  
 (ii) Find an expression for the energy stored in a stretched spring.

3

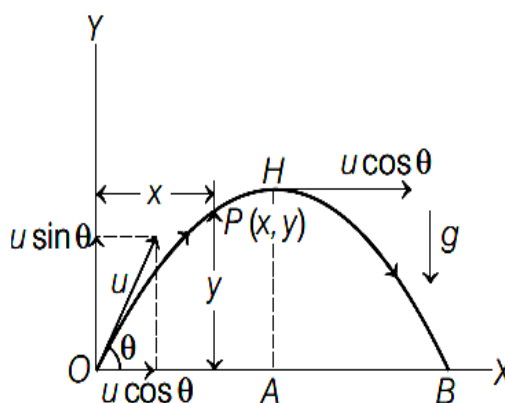
3

### Section-D

#### Case Study Based Questions

- 29 When a projectile is fired at an angle  $\theta$  with horizontal then path followed by a projectile is parabola. In this situation the horizontal component of initial velocity remains same whereas the vertical component goes on decreasing and at the highest point of its journey the vertical component of velocity becomes zero. The time taken by the projectile to complete its journey is time of flight ( $T = 2u \sin\theta/g$ ) and the horizontal distance travelled by projectile from point of projection to the point where it hits the ground at same level as that of projection level it called as horizontal range ( $R = u^2 \sin 2\theta/g$ ).

4



- (i) The example of such type of motion is  
 (a) motion of car on a banked road  
 (b) motion of boat in sea  
 (c) a javelin thrown by an athlete  
 (d) motion of ball thrown vertically upward

OR

The acceleration of the object in horizontal direction is

- (a) constant      (b) decreasing      (c) increasing      (d) zero

- (ii) What will be the effect on the horizontal range of a projectile when its initial speed is doubled keeping the angle of projection same?

- (a) twice      (b) half      (c) four times      (d) none

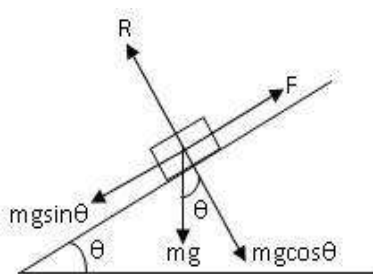
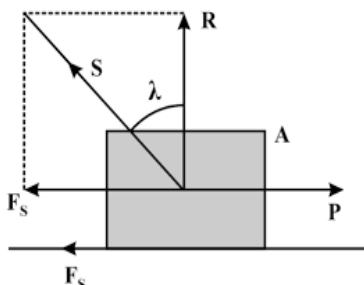
- (iii) An arrow is projected in air. Find the maximum height achieved by it if its time of flight is 5 s and range is 200 m (take  $g=10 \text{ m/s}^2$ ).  
 (a) 31.25 m (b) 30 m (c) 32.30 m (d) 100 m
- (iv) Two projectiles of same mass and same velocity are thrown at an angle 60 degree and 30 degrees with respect to the horizontal respectively. Then which of these will remain same?  
 (a) time of flight (b) range of projectile  
 (c) maximum height acquired (d) all of them

30 The force of limiting friction ( $F$ ) between any two surfaces in contact is directly proportional to the normal reaction ( $N$ ) between them i.e.,  $F \propto N$  or  $F = \mu N$ , where  $\mu$  is the value of coefficient of limiting friction.

The angle of friction  $\lambda$  is given as  $\mu = \tan \lambda$  (shown in first diagram).

When an object is placed on an inclined plane one component of its weight acts as driving force. The angle of repose is maximum inclination of plane in equilibrium. The object just begins to slide down if the angle is further increased. The acceleration down the plane is

$$a = g (\sin \theta - \mu \cos \theta)$$



(i) If a body of mass  $m$  is placed on horizontal surface as shown in figure. Then:

- (a)  $|S| = mg + \mu mg$  (b)  $|S| = \mu mg$   
 (c)  $|S| \leq mg \sqrt{1 + \mu^2}$  (d)  $|S| = mg$

(ii) What will be the angle of friction if the coefficient of friction is  $1/\sqrt{3}$ ?

- (a)  $0^\circ$  (b)  $30^\circ$  (c)  $45^\circ$  (d)  $90^\circ$

(iii) If  $m = 10 \text{ kg}$ ,  $g = 10 \text{ m/s}^2$  and  $\theta = 30^\circ$  and  $\mu = 1/\sqrt{3}$ , then the downward acceleration in the inclined plane is

- (a)  $10 \text{ m/s}^2$  (b)  $5 \text{ m/s}^2$  (c) zero (d)  $12 \text{ m/s}^2$

OR

If the angle of repose is  $30^\circ$ , then angle of friction is?

- (a)  $10^\circ$  (b)  $30^\circ$  (c)  $65^\circ$  (d)  $80^\circ$

(iv) What will be the value of coefficient of friction if the acceleration due to gravity becomes zero?

- (a) it will increase (b) it will decrease (c) remains same (d) zero

### Section-E

- 31 (i) A ball is thrown vertically upwards and returns to the ground following a parabolic path. (1+2+2=5)  
 State two quantities that remain constant in the motion.  
 (ii) From a tower a ball is thrown horizontally and another ball is dropped down at the same time. Will both the ball reach ground at same time and with same velocities? Explain.  
 (iii) A water fountain on the ground sprinkles water all round it. If the speed of water coming out of the fountain is  $v$ , then calculate the total area around the fountain gets wet.

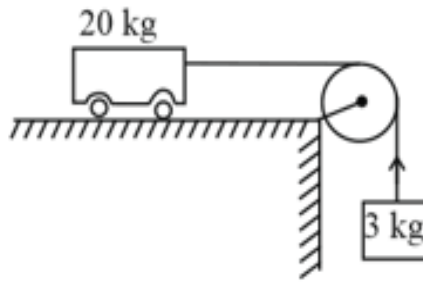
OR

(i) Derive an expression for the centripetal acceleration of a particle moving with uniform speed ' $v$ ' along a circular path of radius ' $r$ '. Give the direction of this acceleration.

(3+2=5)

(ii) If  $|\vec{a} + \vec{b}| = |\vec{a} - \vec{b}|$ , then find the angle between the two vectors.

- 32 (i) What is the acceleration of the block and trolley system shown in figure, if the coefficient of kinetic friction between the trolley and the surface is 0.04? What is the tension in the string? Given  $g = 10 \text{ ms}^{-2}$ . Neglect the mass of the string. (3+2=5)



- (ii) A block of mass  $M$  is pulled along a frictionless horizontal surface by a rope of mass  $m$ . A force  $P$  is applied at the free end of the rope. Find the force exerted by the rope on the block.

OR

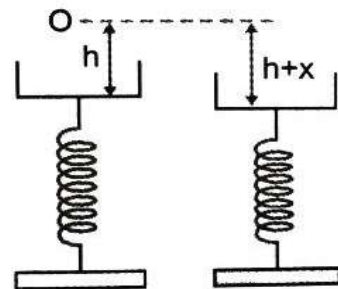
(3+2=5)

- (i) Obtain an expression for the maximum speed with which a vehicle can safely negotiate on a curved road banked at angle  $\theta$ . The coefficient of friction between the wheels and the road is  $\mu$ .

- (iii) What should be the coefficient of friction between tyres and road if a car moving with speed 60 km/h takes a level turn of radius 40 m?

- 33 (i) A mass is revolving in a vertical circle of radius  $r$ . Obtain the expression for minimum speed of mass at its lowest and highest point for looping the loop. (3+2=5)

- (ii) A ball of mass  $m$  is dropped from a height  $h$  on a platform fixed at the top of vertical spring as shown in the figure. The platform is depressed by a distance  $x$ . Find the expression of spring constant  $k$ .



(3+2=5)

OR

- (i) Derive an expression for the final velocities of the two masses  $m_1$  and  $m_2$  initially moving with speeds  $u_1$  and  $u_2$  undergoing elastic collision in one direction.

- (ii) A sphere of mass  $m$  moving with velocities  $u$  hits another sphere of same mass at rest. If  $e$  is the coefficient of restitution, what is the ratio of velocities of two spheres after collision?

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**DAV INSTITUTIONS, WEST BENGAL ZONE**  
**HALF YEARLY EXAMINATION**  
**SESSION: 2023 - 24**

**Class: XI**

**Subject: Psychology**

**Full Marks: 70**

**Time: 3 Hours**

**General Instructions:**

- ❖ All questions are compulsory. Answers should be brief and to the point.
- ❖ **SECTION – A** has **15** Learning Checks carrying one mark each. Answer them as directed.
- ❖ Questions **16 to 21** in **SECTION – B** are Very Short Answer type questions carrying 2 marks each. Answer to each question should not exceed **40 words**.
- ❖ Questions **22 to 24** in **SECTION–C** are Short Answer Type I questions carrying 3 marks each. Answer to each question should not exceed **80 words**.
- ❖ Questions **25 to 28** in **SECTION–D** are Short Answer Type II questions carrying 4 marks each. Answer to each question should not exceed **120 words**.
- ❖ Questions **29 and 30** in **SECTION–E** are Long Answer Type questions carrying 6 marks each. Answer to each question should not exceed **200 words**.
- ❖ Questions **31 to 34** in **SECTION – F** are case study-based questions. There are two 2-marks and two 1-mark questions.

**SECTION-A**

1. An example of covert behavior is- 1  
a. clapping    b. mental counting    c. thinking    d. jumping
2. Before conducting a psychological assessment, the psychologist collects information about the client's personal background like name, age etc. The data that is referred to here is- 1  
a. physiological data    b. demographic data  
c. psychological information    d. physical information
3. Gestalt psychology focuses on the organization of- 1  
a. perceptual experiences    b. behavior    c. mind    d. consciousness.
4. A tentative answer to the problem is called - 1  
a. thesis    b. solution    c. hypothesis    d. research question
5. Anuj has conducted research for determining the effect of study time on student's academic achievement. This is an example of the following research method - 1  
a. experiment    b. correlation    c. survey    d. observation
6. The system which includes the culture in which the individual lives is called- 1  
a. micro system    b. chrono system    c. macro system    d. meso system
7. A 2-month-old baby throws her arms outward and then brings the arms together when she hears a loud noise. The reflex that is being mentioned over here is- 1  
a. grasp    b. rooting    c. Babinski    d. moro
8. Meena, a 15-year-old adolescent thinks that no one understands her feelings and emotions. She weaves stories in diaries about how she suffers and how cruel the world is. According to David Elkind, this refers to the concept of- 1  
a. personal fable    b. imaginary audience    c. centration    d. identity crisis
9. The mental representation of the spatial locations and directions needed to reach the goal is known as- 1  
a. brainstorming    b. cognitive map    c. insight learning    d. category clustering.

10. A puppy is provided with a candy every time it brings back the ball. The reinforcement schedule being mentioned over here is- 1
- a. partial reinforcement                      b. temporary reinforcement  
c. continuous reinforcement                d. extinction
11. \_\_\_\_\_ refers to an active organization of past relations and experiences. 1
- a. schema    b. images    c. self    d. transfer of training

**Two statements are given in the question below as Assertion (A) and Reason (R). Read the statements and choose the appropriate option.**

12. Assertion (A): In neuropsychology, psychologists and neuro-scientists are working together to study the role of nervous system in determining mental functions. 1  
Reason (R): Neuropsychologists are studying the role of neurotransmitters which are responsible for neural communication in different areas of the brain and therefore in mental functions.  
A. Both A and R is true, and R is the correct explanation of A.  
B. Both A and R is 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.
13. Assertion (A): Random assignment of participants to different groups eliminates any potential systematic difference between groups. 1  
Reason (R): Randomization is a method that ensures that each person has an unequal chance of being included in any of the groups.  
A. Both A and R is true and R is the correct explanation of A.  
B. Both A and R is 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.
14. Assertion (A): Anorexia nervosa involves the intense desire and effort of being thin through starvation. 1  
Reason (R): The anorexic goes on eliminating certain food from their diets or eat slimming foods only.  
A. Both A and R is true, and R is the correct explanation of A.  
B. Both A and R is 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.
15. Assertion (A): Observational learning is a process by which the solution to a problem suddenly becomes clear. 1  
Reason (R): Children learn the social gestures by observing others.  
A. Both A and R is true, and R is the correct explanation of A.  
B. Both A and R is 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

16. Enumerate the difference between experimental and control group with suitable examples. 2
17. Write down two advantages of survey method. 2
18. "Behaviour is a product of person and her/his environment. "Write down the name of the psychologist who gave the equation and write down the equation. 2

19. If we hide the toy in front of the child with which he has been playing, the young infant will react as if nothing has happened and will not search for the toy as if the toy does not exist. 1+1  
According to Piaget, what concept is the child lacking and briefly explain it.
20. Write down the differences between appetitive and aversive unconditioned stimuli with suitable examples. 2
21. The task of remembering the word humanity will be easier if the meaning of the concepts such as compassion truth and benevolence are already in place. The number of associations around the new information that can be created will determine its permanence. 1+1  
Explain the control process being referred to here.
- OR**
- Briefly explain flash bulb memories with suitable examples.
- SECTION C**
22. Write down the limitations of psychological enquiry. 3
23. An adult is generally defined as someone who is responsible, mature, self-supporting, and well-integrated into society. 3  
With reference to this, write down three major tasks of early adulthood.
24. Write down the factors that facilitate learning. 3
- OR**
- Elaborate on the differences between primary and secondary reinforcers with suitable examples.
- SECTION -D**
25. Conceptualize the basic ideas of Structuralism and Constructivism. 4
26. A psychological test is a standardized and objective instrument which is used to assess an individual's standing in relation to others on some mental or behavioral characteristics. 4  
With reference to this, write down the characteristics of a good psychological test.
- OR**
- Write down the ethical principles to be followed by a researcher while conducting psychological research.
27. Some children fail to move forward in schools due to learning disabilities which may affect their self-esteem, social relations as well as school drop outs. Enumerate the major symptoms of learning disabilities. 4
28. Write down short notes on any two theories which have been advanced to explain forgetting. 4
- SECTION E**
29. Various branches of specialization in psychology have emerged over the years. Discuss any three branches. Write down the field that you are interested to pursue with suitable justification. 3+3
- OR**
- What is psychology? Make a critical analysis of psychology as a social and natural science.
30. The child gains the ability to mentally represent an object in childhood. This ability to engage in symbolic thought helps her/him to expand the mental world. Elaborate the significant cognitive developments that happen in early childhood. 6
- OR**
- Differentiate among growth, development, and maturity. Write down three major assumptions on the lifespan perspective on development.

## SECTION F

### **Read the case and answer the following questions:**

A researcher is interested in the study of the association between empathy and emotional regulation in children with autism spectrum disorder (ASD). He has found out that the grater the empathy, the better is the emotional regulation in children with ASD.

- |     |  |   |
|-----|--|---|
| 31. | Name the type of research being referred to here. Briefly explain the research being used. | 2 |
| 32. | Explain quasi experimentation.   | 1 |

### **Read the case and answer the following questions:**

Riya, a professor by profession clearly remembers the initial days of ragging and harassment in her college. The recall of such memories spontaneously triggers fear and crying spells even after the lapse of so many years. She clearly remembers the incidents and it appears so vivid to her even now.

- |     |  |   |
|-----|--|---|
| 33. | Name the type of memory being referred here. How is it different from procedural memory? | 2 |
| 34. | What is childhood amnesia?   | 1 |

\*\*\*\*\*

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

## HALF YEARLY EXAMINATION

SESSION: 2023-24

CLASS: XI

MAXIMUM MARKS: 80

SUBJECT: SOCIOLOGY

TIME: 3 Hours

### General Instructions

1. The question paper consists of four pages.
2. The question paper is divided into four sections.
3. There are 35 questions in all. All questions are compulsory.
4. Section A includes question No. 1-16. These are MCQ type questions. As per the question, there can be one answer.
5. Section B includes question No. 17-25. These are very short answer type questions carrying 2 marks each. Answer to each question should not exceed 30 words.
6. Section C includes question No. 26-32. They are short answer type questions carrying 4 marks each. Answer to each question should not exceed 80 words.
7. Section D includes question No. 33-35. They are long answer type questions carrying 6 marks each. Answer to each question should not exceed 200 words.

### SECTION A

1. Consider the following statements regarding the Characteristic of primary group:

- (i) Small size of group
- (ii) Physical proximity
- (iii) Limited responsibility
- (iv) Impersonal relationship

1

#### Codes:

- a. (iii) and (iv) are correct
- b. (i) and (ii) are correct
- c. (ii) and (iii) are correct
- d. (i) and (iv) are correct

2. 'A true economic science would look at all the costs of the economy – not only at the costs that corporations are connected with, but also at crimes, suicides and so on.' Who made this statement?

1

- |                    |                |
|--------------------|----------------|
| a. Max Weber       | c. R.K.Laxman  |
| b. Pierre Bourdieu | d. Amartya Sen |

3. Identify the wrong correlation

- |                      |   |
|----------------------|---|
| a. Role stereotyping | i. Reinforcing some specific role for Some specific members |
| b. Role conflict     | ii. Incompatibility among roles                             |
| c. Prestige          | iii. Values attached to status                              |
| d. Deviance          | iv. Behavioural aspect of status                            |

1

4. Assertion (A): Socialised individual never go against the values of the society.

Reason (R): Socialisation makes the individual learn to conform to the norms of the society.

1

- 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 true but R is false.
- d. A is false but R is true.



5. Assertion (A): Most of the time the urban individual participates and fulfills his needs in secondary groups. 1  
Reason (R): The primary groups have ceased to exist in modern societies.
- Both A and R are correct and R is the correct explanation of A.
  - Both A and R are correct but R is not the correct explanation of A.
  - A is true but R is false.
  - A is false but R is true.
6. The existence or action of opposing social forces is known as \_\_\_\_\_. 1
- Social constraint
  - Dialectic
  - Values
  - Sanction
7. Which of the following is an attribute of culture? 1
- Culture is divinely gifted.
  - Culture is genetically inherited.
  - Culture is socially constructed.
  - Culture is environmentally manipulated.
8. The sociologist \_\_\_\_\_ remarks that in post-independent India the joint family has steadily increased. 1
- A.M.Shah
  - M.N.Srinivas
  - Giddens
  - None of the above
9. Revolutionary change can be initiated through 1
- Political intervention
  - Process of adaptation
  - Technological innovation
  - Ecological transformation
- i. iii. iv
  - ii, iii, iv
  - i. ii, iii
  - i, ii, iv
10. The term 'infancy of society' was used by western sociologists because 1
- Indian society was caste ridden.
  - They saw a big opportunity of income in India.
  - Indian people suffered from the poverty.
  - They saw in 19<sup>th</sup> century India the past of the European society.
11. In the colonial period many middle class Indians aspired to behave like proper Englishman. In that sense they could be seen as \_\_\_\_\_ group for the aspiring section. 1
- Reference
  - Secondary
  - Primary
  - Out
12. Assertion (A): Sociology in India also had to deal with western writing and ideas about Indian society that was not always correct. 1  
Reason (R): These ideas were expressed both in the accounts of colonial officials as well as western scholars.
- Both A and R are correct and R is the correct explanation of A.
  - Both A and R are correct but R is not the correct explanation of A.
  - A is true but R is false.
  - A is false but R is true.
13. Match list 1 with list 2 1
- |                |  |
|----------------|--|
| A. Patrilocal  | i. Men exercise authority and dominance    |
| B. Patrilineal | ii. Couple stays with men's parents        |
| C. Patriarchal | iii. Inheritance passes from father to son |
| D. Matriarchal | iv. Women exercise authority and dominance |
- |        |     |     |    |
|--------|-----|-----|----|
| A      | B   | C   | D  |
| a. ii  | i   | iii | iv |
| b. iii | ii  | i   | iv |
| c. i   | iii | ii  | iv |
| d. ii  | iii | i   | iv |

14. The reason for sudden decline in sex ratio can be attributed to
  - a. female foeticide
  - b. son preference
  - c. life expectancy rate
  - d. maternal mortality rate
15. Assertion (A): Religion does not have any influence on economic development.  
Reason (R): Religion has had a very close relationship with power and politics.
  - 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 true but R is false.
  - d. A is false but R is true.
16. The tendency to evaluate other cultures according to one's own cultural values is known as:
  - a. Cosmopolitanism
  - b. Ethnocentrism
  - c. Accommodation
  - d. Acculturation

### SECTION B

17. "The most fruitful distinction with which the Sociological Imagination works is between the personal trouble of the milieu and the public issues of social structure".  
How are the personal problem and public issues related? Explain with suitable example.
18. What makes culture dynamic as functioning unit?
19. "Status and prestige are interconnected terms." Justify the statement with suitable example.  
OR  
"Status is occupied but roles are played." Comment on the statement.
20. "Families are linked with other social spheres and families change." Do you agree with this statement? Give your answer with suitable example.
21. What do you mean by stateless society? Do they exist in contemporary world?
22. What is functionalist perspective of social control?
23. Differentiate power from authority.  
OR  
What are the characteristics that all religions seem to share?
24. "The industrial cities gave birth to a new kind of urban world". List any two consequences of urbanization.
25. Discuss the pluralistic perspective of society.

### SECTION C

26. "Sociological knowledge is different from common sense knowledge." Explain with suitable example.
27. "Khasi matriliney generates intense role conflict". Justify the statement.
28. How is ascribed status different from achieved status?  
OR  
What is the difference between community and association?
29. Who is a citizen? Discuss the kind of rights that are enjoyed by a citizen.  
OR  
Explain the concept of modern state. Examine the features of modern state.
30. Explain the concept of culture and discuss three dimensions of culture that influence societal norms and behaviour. Provide examples to illustrate each dimension.
31. 'Society can be seen as consisting of different strata in a hierarchy, with the more favoured at the top and the less privileged near the bottom.'  
Based on the above statement give the meaning of social stratification. Elaborate four basic system of social stratification that have existed in human societies.
32. "Ethnocentrism is opposite to cosmopolitanism". Justify the statement. Provide instances of practices or attitudes that reflect cosmopolitan values. (any two)

## SECTION D

33.



6

Based on the picture mentioned above identify and discuss material issues that contributed to the development of sociology as a distinct field of study.

34. Calvinism has an influence on economic development. Discuss.

OR

6

Explore functionalist and conflict perspective on education. How does this perspective highlight the role of education in perpetuating social inequalities?

35. Another socializing agency is the peer group. Peer groups are friendship groups of children of a similar age. In some cultures, particularly small traditional societies, peer groups are formalized as age-grades. Even without formal age-grades, children over four or five usually spend a great deal of time in the company of friends of the same age. The word 'peer' means 'equal', and friendly relations established between young children do tend to be reasonably egalitarian. A forceful or physically strong child may to some extent try to dominate others. Yet there is a greater amount of give and take compared to the dependence inherent in the family situation. Because of their power, parents are able to enforce codes of conduct upon their children. In peer groups, by contrast, a child discovers a different kind of interaction, within which rules of behaviour can be tested out and explored.
- a. Peer group is different from family regarding its role in socialization.
  - b. What does the word 'peer' mean? What are peer groups?
  - c. What lesson do children take from the peer group?

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