

D.A.V. INSTITUTIONS, WEST BENGAL ZONE

HALF YEARLY EXAMINATION

SESSION 2023-2024

CLASS: XII

MAXIMUM MARKS:80

SUBJECT: BUSINESS STUDIES (054)

TIME:3 HOURS

General Instructions:

1. This question paper contains 34 questions and 4 printed pages.
2. Marks are indicated against each question.
3. Answers should be brief and to the point.
4. Answer to the questions carrying 3 marks may be 50 to 75 words.
5. Answer to the questions carrying 4 marks may be about 150 words.
6. Answer to the questions carrying 6 marks may be about 200 words.
7. Attempt all parts of the questions together.

- 1 At times a business may concentrate on producing goods with fewer resources, but cannot achieve the targeted production on time. In such a case, the business is said to be: 1
(a)Effective but not efficient (b)Efficient but not effective
(c)Both effective and efficient (d) Neither effective and efficient
- 2 Identify the feature of co-ordination being highlighted in the given statement : “Coordination is not a one time function , it begins at the planning stage and continue till controlling” 1
(a) Coordination ensures unity of action . (b) Coordination is an all pervasive function.
(c) Coordination is a continuous process (d) Coordination is a deliberate function
- 3 The technique of Functional Foremanship is an extension of the principle of _____ to the shop floor. 1
(a)Discipline (b) Equity (c) Division of work (d) Order
- 4 Ramesh, Manager of Sigma Ltd., is very partial in dealing with people from different states. Which management principle is being violated? 1
(a) Espirit De Corps (b) Order (c) Equity (d) Discipline
- 5 ‘Introduction of Mobile Phones has adversely affected the business of watches and cameras’. Which dimension of business environment is related with the given case? 1
(a) Political Environment (b) Social Environment
(c) Technological Environment (d) Legal Environment
- 6 Which of the following is a feature of demonetisation? 1
(a) Tax administration measure
(b) Channelising savings into the formal financial system
(c) Development of less-cash economy
(d) All of the above.
- 7 Read the following statements- Assertion (A) and Reason(R) .Choose one of the correct alternatives given below: 1
Assertion (A): Directing is a key function of management.
Reason (R): While other functions prepare a set for action, directing initiate action in the organisation.
(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 correct explanation of Assertion (A).
(c) Assertion (A) is true but Reason(R) is false
(d) Assertion (A) and Reason(R) both are incorrect.

- 8 On the introduction of GST, experts in the field of business started analyzing and forecasting its impact on various sectors and industries. Rahul, the manager of Trendz Garments Ltd. also attended a few seminars and conferences to familiarize himself with this information. He wanted to use these forecast as assumptions to draw plans for future. Name the step in planning process that being discussed above? 1
- (a) Setting Objectives (b) developing Premises
(c) Implementation of plan (d) Follow up action

OR

It facilitates comparison of actual results with the planned ones.

Which type of plan is highlighted in the above statement?

- (a) Policy (b) Rule (c) Controlling (d) Budget
- 9 From the following steps of planning, identify the correct order of steps: 1
- (a) Evaluate Alternative Course (b) Setting Objectives
(c) Identifying Alternative Courses of Action (d) Developing Premises
- (a) 1-2-3-4 (b) 1-4-3-2 (c) 2-4-3-1 (d) 4-2-3-1

- 10 Span of management refers to: 1
- (a) Number of managers
(b) Number of subordinates under a superior
(c) Number of members in top management
(d) Length of term for which a manager is appointed

- 11 Match the various 'Features of Directing' in Column-I with their respective statements in Column-II: 1

	Column-I		Column-II
A	Directing is a continuous process	i	Every manager can direct his subordinate and take instructions from his immediate boss.
B	Directing flows from top to bottom	ii	It takes place wherever superior-subordinate relations exist.
C	Directing takes place at every level of management	iii	It takes place throughout the life of the organisation

- (a) A-iii; B-i; C-ii (b) A-ii; B-i; C-iii (c) A-i; B-ii; C-iii (d) A-iii; B-ii; C-i
- 12 Identify the type of non-financial incentive offered to the employees in the image above: 1



- (a) Career Advancement Opportunity (b) Job Enrichment
(c) Employee Recognition Programme (d) Organisational Climate
- 13 Daksh was given a task by his superior to complete it in 20 days. Daksh delegated the task to two of his subordinates. One of the subordinate met with an accident and could not complete his work. Who is answerable to Daksh's superior for this task? 1
- (a) Daksh (b) Daksh's subordinate
(c) Both (a) and (b) (d) None of these
- 14 Which step in the staffing process comes immediately after recruitment? 1
- (a) Selection (b) Orientation
(c) Training (d) Compensation
- 15 Om Prakash has set up a small business unit for the manufacturing of detergent. In order to market the detergent in the local residential areas, he has appointed a team of ten salesmen. Each salesman is expected to sell at least 200 units of the detergent within a week's time. Identify the point of importance of controlling being highlighted in the above case. 1

- (a) Controlling helps in judging accuracy of standards.
 (b) It ensures efficient use of resources.
 (c) It helps in improving employee motivation
 (d) It facilitates co-ordination in action.
- 16 The function of staffing is performed by: 1
 (a) Top level Management (b) Operative level Management
 (c) Middle level Management (d) All the levels of Management
- 17 Statement-I - Uniproduct or single type of product manufacturing company can follow functional structure of organisation. 1
 Statement-II - Functional Structure groups jobs of similar nature and emphasizes on specific functions.
 Choose the correct option from the options given below:
 (a) Statement I is true and II is false (b) Statement II is true and I is false
 (c) Both the statements are true (d) Both the statements are false
- 18 Manpower requirements involve: 1
 (a) Workload Analysis (b) Workforce Analysis
 (c) Both (a) and (b) (d) Neither (a) and nor (b)
- 19 When the deviations between the actual performance and the planned performance are within the limits 1
 (a) A limited corrective action is required
 (b) No corrective action is required
 (c) A major corrective action is required
 (d) None of the above
- OR
- Management by exception refers to
 (a) Controlling significant deviations (b) Focus on key result areas
 (c) Check on each and every activity (d) Keep a control on everything
- 20 It refers to overall growth of the employee. 1
 (a) Development (b) Training (c) Placement (d) Recruitment
- 21 Describe briefly the following methods of training: 3
 (i) Apprenticeship training and (ii) Internship Training.
- 22 “Management is skillful and personal application of existing knowledge to achieve desire results.” 3
 Explain.
- OR
- Coordination is the essence of management. Do you agree? Give reasons.
- 23 ‘The process of planning requires logical reasoning, creativity and ability to analyse the situation through vision. ’Discuss the characteristic of planning highlighted in the given statement. 3
- OR
- Can planning work in a changing environment? Give a reason to justify your answer.
- 24 One of the principles of scientific management emphasizes that to make the employees learn the ‘best method’ of production, training to workers is essential. It further emphasizes that each person should be scientifically selected and the work assigned to the employees should suit physical, mental and intellectual capabilities. 3
 a.Name and explain the principle of scientific management involved.
 b.Name the principle of scientific management which is concerned with selecting the best way of performing a job through application of scientific analysis and not by intuition or hit and trail methods.
 c.Name the values emphasized by following the principle in part (a) above.
- 25 Ashutosh Goenka was working in ‘Axe Ltd.’ a company manufacturing air purifiers. He found that the profits had started declining from the last six months. Profit has an implication for the survival of the firm, so he analysed the business environment to find out the reasons, for the decline. 4
 (a) Identify the level of management at which Ashutosh Goenka was working.
 (b) State three other function being performed by Ashutosh Goenka .
- 26 How would you argue that the success of a business enterprise is significantly influenced by its environment? 4

- 27 'Organising involves a series of steps that need to be taken in order to achieve the desired goals'. Explain these steps. 4

OR

What do you mean by Delegation of Authority. Explain the elements of Delegation of Authority.

- 28 Vardan Patel started the business of preparation and supplying sweets through home delivery at a production cum show-room 'Express Sweets' at Ahmedabad. He made a plan forecasting the sales of different types of sweets in various localities of Ahmedabad for each month of the year to earn a profit of 20% on capital employed. He set a sales target of 20,00,000 in the current year with a 10% increase every year. He then set the criteria for selecting suppliers from whom he would make purchases of raw material. The planning paid off and the business was able to achieve its targets. 4

(a) Identify any two types of plans by quoting the lines from the above.

(b) Also give the meaning of the types of plans identified in part (a) above.

- 29 Explain the following features of directing: 4

(a) Directing initiates action

(b) Directing is performance oriented.

OR

Explain any four measures to improve communication effectiveness in an organisation.

- 30 A company 'M' limited is manufacturing products both for the domestic Indian market as well as for export. It had enjoyed a substantial market share and also had a loyal customer following. But lately it has been experiencing problems because its targets have not been met with regard to sales and customer satisfaction. Also the product's market in India has grown tremendously and new players have come with better technology and pricing. This is causing problems for the company. It is planning to revamp its controlling system and take necessary action to rectify the problems it is facing. 4

a. Identify and state any two benefits the company will derive from a good control system.

b. How can the company relate its planning with control in this line of business to ensure that its plans are actually implemented and targets attained.

c. Give the first two steps in the control process that the company should follow to remove the problems it is facing.

- 31 Explain the following principles of management given by Fayol with example: 6

a)Unity of Direction

b)Esprit de corps

c) Subordination of Individual interest to General interest

OR

Discuss the following techniques of Scientific Work Study:

a)Differential Piece Wage System

b) Fatigue Study

c) Standardisation and Simplification of work

- 32 Which function of management helps in obtaining right people and putting them on the right job? Explain any five points of importance of this function. 6

OR

What is meant by recruitment? Explain any five external sources of recruitment of employees.

- 33 The managing Director of 'Verma Chemicals Pvt.Ltd.'held a meeting of all the departmental managers. In the meeting, the managing directors said that besides doing their current work efficiently, they also had to make themselves capable of shouldering more responsibility in future as the company is going to add an additional product to its existing product line. For the realization of this objective, he invited suggestions from all departmental heads. The Managing Director proposed a plan on the basis of the suggestions received. All the departmental heads carried out the plan. 2

a) Identify and give the meaning of the style referred in the above para. 2

b) Explain the other two styles of leadership. 4

- 34 What is meant by 'Formal Organisation'? State any three advantages and any two limitations of 'Formal Organisation'. 6

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Class: XII

Subject: Accountancy

Maximum Marks: 80

Time: 3 Hrs.

GENERAL INSTRUCTIONS:

1. This question paper contains 34 questions. All questions are compulsory.
5. Question Nos.1 to 20 carries 1 mark each.
6. Questions Nos. 20 to 26 carries 3 marks each.
7. Questions Nos. from 27 to 29 carries 4 marks each
8. Questions Nos. from 30 to 34 carries 6 marks each

- 1 A and B are partners in a partnership firm without any agreement. A withdrawn Rs.50,000 out of his Capital as drawings. Interest on drawings be charged from A by the firm: 1
- (A) @ 5% Per Annum
(B) @ 6% Per Annum
(C) @ 6% Per Month
(D) No interest can be charged

OR

A and B are partners in a partnership firm without any agreement. A devotes more time for the firm as compare to B. What commission A will get in addition to profit in the firm's profit?

- (A) 6% of profit
(B) 4% of profit
(C) 5% of profit
(D) None of the above
- 2 Which one of the given below items cannot be recorded in the profit and loss appropriation account? 1
- (A) Interest on capital
(B) Interest on drawings
(C) Rent paid to partners
(D) Partner's salary
- 3 If any loan or advance is provided by partner then, balance of such Loan Account should be transferred to : 1
- (A) Asset Side of Balance Sheet
(B) Liability Side of Balance Sheet
(C) Partner's Capital A/c
(D) Partner's Current A/c
- 4 Assertion (A):Goodwill is an intangible but not a fictitious asset. 1
Reason (R):Goodwill is an intangible asset because it does not have a physical existence but it is a valuable asset because it is helpful in earning excess profits.
In the context of the above two statements , Select the correct Codes given below :
Codes:
(A) Both (A) and (R) are true, but (R) is not the correct explanation of (A).
(B) Both (A) and (R) are true and (R) is the correct explanation of (A).
(C) Both (A) and (R) are false.
(D) (A) is false, but (R) is true.

OR

Assertion (A): Goodwill exists only when a firm earns more profits than normal profits.

Reason (R): Self generated goodwill is shown in the books because consideration in money or money's worth has been paid for it.

In the context of the above two statements Select the correct Codes given below:

Codes:

(A) (A) and (R) both are correct and (R) correctly explains (A).

(B) Both (A) and (R) are correct but (R) does not explain (A).

(C) Both (A) and (R) are incorrect.

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

- 5 Choose the Best Alternate: 1
In which situation(s) the reconstitution of a firm takes place:
(A) At the time of change in profit sharing ratio amongst the partners
(B) At the time of admission of a new partner
(C) Both (A) and (B)
(D) At the time of doing past adjustments
- 6 Any change in the relationship of existing partners which results in an end of the existing agreement and entering into a new agreement is called: 1
(A) Revaluation of Partnership Firm
(B) Reconstitution of Partnership Firm
(C) Dissolution of Partnership Firm
(D) Amalgamation of Partnership Firms
- 7 Sacrificing Ratio: 1
(A) New Ratio - Old Ratio
(B) Old Ratio - New Ratio
(C) Old Ratio - Gaining Ratio
(D) Gaining Ratio - Old Ratio
- 8 Disha and Abha were partners in a firm. Farad was admitted as a new partner for 1/5th share in the profits of the firm. Farad brought proportionate capital. Capitals of Disha and Abha after all adjustments were Rs. 64,000 and Rs. 46,000 respectively. Capital brought by Farad was: 1
(A) Rs. 22,000
(B) Rs. 27,500
(C) Rs. 55,000
(D) Rs. 28,000
- 9 A and B are in partnership sharing profits in the ratio of 3: 2. They take C as a new partner. Goodwill of the firm is valued at Rs. 3,00,000 and C brings Rs. 30,000 as his share of goodwill in cash which is entirely credited to the Capital Account of A. New profit sharing ratio will be: 1
(A) 3:2:1
(B) 6:3:1
(C) 5:4:1
(D) 4:5:1

OR

X and Y are partners sharing profits in the ratio of 4: 3. Z is admitted for 1/5th share and he brings in Rs. 1,40,000 as his share of goodwill in cash of which Rs. 1,20,000 is credited to X and remaining amount to Y. New profit sharing ratio will be:

- (A) 4:3:5
(B) 2:2:1
(C) 1:2:2
(D) 2:1:2

- 10 At the time of admission of partner, 'General Reserve' appearing in the Balance Sheet of the firm is transferred to the Capital accounts of the following: 1
 (A) Old partners in old profit sharing ratio
 (B) Old partners in new profit sharing ratio
 (C) All partners in the new profit sharing ratio
 (D) Old partners in sacrificing ratio
- 11 A, B and C are partners sharing profit or loss in the ratio of 2 : 3 : 4. A retires and after A's retirement B and C agreed to share profit or loss in the ratio of 3:4 in future. Their gaining ratio will be: 1
 (A) 2:3
 (B) 4:3
 (C) 3:4
 (D) 1:1
- 12 A, B and C were partners in a firm sharing profits and losses in the ratio of 2:2:1. The capital balance are Rs. 50,000 for A, Rs. 70,000 for B, Rs. 35,000 for C. B decided to retire from the firm and balance in reserve on the date was Rs. 25,000. If goodwill of the firm was valued at Rs. 30,000 and profit on revaluation was Rs. 7,500 then, what amount will be payable to B? 1
 (A) Rs. 70,820
 (B) Rs. 76,000
 (C) Rs. 75,000
 (D) Rs. 95,000

OR

P, Q and R are sharing profits and losses equally. R retires and the goodwill is appearing in the books at Rs. 30,000. Goodwill of the firm is valued at Rs. 1,50,000. Calculate the net amount to be credited to R's Capital A/c.

- (A) Rs. 60,000
 (B) Rs. 50,000
 (C) Rs. 40,000
 (D) Rs. 10,000
- 13 A, B and C are partners with profit sharing ratio 4: 3:2. B retires and goodwill was valued Rs. 1,08,000. If A & C share profits in 5: 3, find out the goodwill shared by A and C in favour of B. 1
 (A) Rs. 22,500 and Rs. 13,500
 (B) Rs. 16,500 and Rs. 19,500
 (C) Rs. 67,500 and Rs. 40,500
 (D) Rs. 19,500 and Rs. 16,500
- 14 What journal entry will be recorded for deceased partner's share in profit from the closure of last balance sheet till the date of his death? 1
 (A) Profit and Loss A/c _____ Dr.
 To Deceased Partner's Capital A/c
 (B) Deceased Partner's Capital A/c _____ Dr.
 To Profit and Loss A/c
 (C) Deceased Partner's Capital A/c _____ Dr.
 To Profit and Loss Suspense A/c
 (D) Profit and Loss Suspense A/c _____ Dr.
 To Deceased Partner's Capital A/c

OR

On the death of a partner, the amount due to him will be credited to:

- (A) All partner's Capital Accounts
- (B) Remaining partner's Capital Accounts
- (C) His Executor's Account
- (D) Governments' Revenue Account

- 15 A, B and C were partners sharing profits and losses in the ratio of 2 : 2: 1. Books are closed on 31st March every year. C dies on 5th November, 2022. Under the partnership deed, the executors of the deceased partner are entitled to his share of profit to the date of death, calculated on the basis of last year's profit. Profit for the year ended 31st March, 2022 was Rs. 2,40,000. C's share of profit will be: 1
- (A) Rs. 28,000
 - (B) Rs. 32,000
 - (C) Rs. 28,800
 - (D) Rs. 48,000
- 16 On dissolution, the final balance of capital accounts are transferred to : 1
- (A) Realisation Account
 - (B) Cash Account
 - (C) Profit & Loss Account
 - (D) Loan Accounts of Partners
- 17 Change in the existing agreement between the partners is called : 1
- (A) Dissolution of Firm
 - (B) Dissolution of Partnership
 - (C) Dissolution of Business
 - (D) All of the Above
- 18 On dissolution of a firm, a partner paid Rs. 700 for firm's realisation expenses. Which account will be debited? 1
- (A) Cash Account
 - (B) Realisation Account
 - (C) Capital Account of the Partner
 - (D) Profit & Loss A/c

OR

There was an unrecorded asset of Rs 2,000 which was taken over by a partner at Rs 1,500, Partners capital account will be debited by _____

- (A) Rs 2000
 - (B) Rs1500
 - (C) Rs 500
 - (D) Rs 3500
- 19 Realisation Expenses Rs. 10,000 were paid by the firm on behalf of a partner. Which of the following entry will be passed? 1
- (A) Realisation A/C_----- Dr.
To Bank A/C
 - (B) Realisation A/C_----- Dr.
To Concerned Partners Capital A/C
 - (C) Concerned Partners Capital A/C
To Bank A/C
 - (D)None of the above
- 20 Which of the given below Account is not transferred to Realisation Account: 1
- (A) Balance of Cash Account
 - (B) Balance of Reserves
 - (C) Balance of Profit & Loss Account
 - (D) All of the Above

- 21 P, Q and R are partners in a firm sharing profits and losses in the ratio of 2:1:2. Their fixed capitals were Rs. 3,00,000; Rs. 1,00,000 and Rs. 2,00,000 respectively. Interest on capital for the year ended 31st March, 2023 was credited to them @ 9% p.a. instead of 12% p.a. The profit for the year before charging interest was Rs. 2,50,000. Pass necessary adjustment entry. 3
- 22 Average profit of a firm during the last few years is Rs. 80,000 and the normal rate of return in a similar business is 10%. If the goodwill of the firm is Rs. 1,00,000 at 4 year's purchase of super profit, find the capital employed by the firm. 3

OR

From the figures given below, calculate goodwill according to the capitalisation of Average Profits Method:

- (i) Actual Average Profits = Rs. 72,000
 - (ii) Normal Rate of Return = 10%
 - (iii) Assets = Rs. 9,70,000
 - (iv) Liabilities = Rs. 4,00,000
- 23 A and B are partners sharing profits and losses in the ratio of 4:1. They admit C into partnership for $\frac{1}{6}$ th share for which he pays Rs. 20,000 for goodwill. A, B and C decide to share future profits in the ratio of 3:2:1 respectively. Give the necessary journal entries. 3
- 24 D, E and F are partners sharing profits and losses in the ratio of 3:2:1. E retired from the firm. After all the adjustments his Capital Account shows a credit balance of Rs. 40,000 as on 1st January 2020. Y to be paid in two equal half yearly instalments together with interest @10% p.a. The firm closes its books on 31st December of every year. 3
- Prepare Y's Loan Account for the year 2020.

OR

R, S and T are partners sharing profits and losses in the ratio of 4:3:3. After all adjustments on R's retirement, the balances in their capital account stood at Rs. 70,000, Rs. 60,000 and Rs. 50,000 respectively. It was decided that the amount payable to R will be bought by S and T in such a way as to make their capital proportionate to their profit sharing ratio. Calculate the amount of cash bought in by S and T and pass necessary journal entries for the same.

- 25 A, B and C were partners in a firm sharing profits in 3:2:1 ratio. The firm closes its books on 31st March every year. B died on 12-6-2021. On B's death the goodwill of the firm was valued at Rs. 60,000. On B's death his share in the profits of the firm till the time of his death was to be calculated on the basis of previous year's profit which was Rs. 1,50,000. Calculate B's share in the profit of the firm. Pass necessary journal entries for the treatment of goodwill and B's share of profit at the time of his death. 3
- 26 Give the necessary journal entries for Realisation expenses in each of the given below alternative : 3
- (i) Realization expenses amounted to Rs. 500.
 - (ii) Realization expenses paid by the firm amounted to Rs. 500 and the partner has to bear the realization expenses.
 - (iii) 'A' one of the partner was to bear all the realisation expenses for which he was given a commission of 2% of net cash realised from dissolution. Cash realised from assets was Rs. 25,000 and cash paid for liabilities amounted to Rs. 5,000.
- 27 X, Y and Z are partners in a firm. Their Capital Accounts stood at Rs. 15,000, Rs. 7,500 and Rs. 7,500 respectively on 1st April 2022. 4

As per provision of the deed:

- i) Z was allowed a Remuneration of Rs. 1,500 p.a.
- ii) Interest 5% p.a. is to be provided on Capital.
- iii) Profit was to be provided in the ratio 2:2:1.

Ignoring the above terms, the Net Profit of Rs. 9,000 for the year ended 31st March 2023 was divided among the partners equally. Pass an adjustment to rectify the error. Show the working clearly.

- 28 P, Q and R were partners in a firm sharing profits in 2:2:1 ratio. The partnership deed provided that on the death of a partner his executors will be entitled for the following: 4
- (i) Interest on capital @ 12% p.a.
 - (ii) Interest on drawings @ 18% p.a.
 - (iii) Salary of Rs 12,000 p.a.
 - (iv) Share in the profit of the firm (up to the date of death) on the basis of previous year's profit.
- P died on 31st May, 2020. His capital was Rs 80,000 on 1st April 2020. He had withdrawn Rs 15,000 and interest on drawings was calculated as Rs 1,200. The profit of the firm for the previous year ended 31st March 2020 was Rs 30,000.
- Prepare P's capital a/c to be presented to his executor.

OR

Naveen, Kavita and Vishesh were partners in a firm sharing profits and losses in the ratio of 5: 4:1. Their Balance Sheet as at 31st March, 2022 was as under:

BALANCE SHEET OF NAVEEN, KAVITA AND VISHESH as at 31st March, 2022

Liabilities	(Rs.)	Assets	(Rs.)
Naveen's Capital	3,00,000	Plant and Machinery	5,50,000
Kavita's Capital	2,00,000	Stock	1,20,000
Vishesh's Capital	1,00,000	Debtors	1,30,000
Profits for the year 2021-22	1,50,000	Cash	40,000
Sundry Creditors	1,10,000	Advertisement Expenditure	20,000
	<u>8,60,000</u>		<u>8,60,000</u>

Naveen died on 30th June, 2022. According to the partnership deed, in addition to the deceased partner's capital, the executors are entitled to:

- (i) His share in profits till the date of death on the basis of average profits of the last two years. The profit for the year 2020-21 was Rs. 50,000.
- (ii) His share in the goodwill of the firm. Goodwill was to be calculated on the basis of two years' purchase of the average profits of the last two years.

Naveen withdrew Rs.60,000 on 1st June, 2022.

Prepare Naveen's Capital Account which is to be rendered to his executor.

- 29 J, K and I were partners in a firm sharing profits in the ratio of 4 : 5 : 1. On 31st March, 2023 their firm was dissolved. On this date the Balance Sheet showed a balance of Rs. 1,34,000 in debtors account and a balance of Rs. 14,000 in provision for bad debts account. Both the accounts were closed by transferring their balances to realisation account. Rs. 4,000 of the debtors became bad and nothing could be realised from them on dissolution. K agreed to look after the dissolution work for which he was allowed a remuneration of Rs. 16,000. K also agreed to bear dissolution expenses for which he was allowed a lump sum payment of Rs. 4,000. Actual dissolution expenses were Rs. 6,500 and the same were paid from the firm's cash. Loss on dissolution amounted to Rs. 37,000. 4
- Pass necessary journal entries for the above transactions in the books of the firm on its dissolution.
- 30 Moli, Bhola and Raj were partners in a firm sharing profits and losses in the ratio of 3 : 3 : 4. 6
- Their partnership deed provided as:
- (i) Interest on capital @5% p.a.
 - (ii) Interest on drawing @12% p.a.
 - (iii) Interest on partners' loan @6% p.a.

(iv) Moli was allowed an annual salary of Rs. 4,000; Bhola was allowed a commission of 10% of net profit as shown by Profit and Loss Account (after interest on Bhola's loan) and Raj was guaranteed a profit of Rs. 1,50,000 after making all the adjustments as provided in the partnership agreement.

Their fixed capitals were Moli: Rs. 5,00,000; Bhola Rs. 8,00,000 and Raj Rs. 4,00,000. On 1st April, 2022 Bhola extended a loan of Rs. 1,00,000 to the firm. The net profit of the firm for the year ended 31st March, 2023 before interest on Bhola's loan was Rs. 3,06,000.

Prepare Profit and Loss Appropriation Account of Moli, Bhola and Raj for the year ended 31st March, 2023 assuming that Bhola withdrew Rs. 5,000 at the end of each month. Moli withdrew Rs. 10,000 at the end of each quarter and Raj withdrew Rs. 40,000 at the end of each half year.

OR

A, B and C are partners with Fixed Capital of Rs 1,00,000, Rs. 2,00,000 and Rs. 3,00,000 respectively. Their partnership deed provides the following:

- i) A is to be allowed a monthly salary of Rs. 600 p.m. and B to be allowed a monthly salary of Rs. 400 p.m.
- ii) C will be allowed a commission at 10% of Net Profits after allowing salaries to A & B and his own commission.
- iii) Interest on Capital to be allowed @ 6 % p.a.
- iv) Interest will be charged on partners' annual drawings is 4 %.
- v) The Annual Drawings of B and C were Rs. 10,000 & Rs. 15,000.
- vi) C is entitled to a Rent of Rs. 1,000 p.m. for the use of his premises by the firm.
- vii) Profit sharing ratio 2:2:1

The Net Profit for the year ending 31st March 2023 amounted to Rs 4,64,000.

Prepare Profit and Loss Appropriation Account.

- 31 A, B and C are partners in a firm sharing profits in the ratio of 3:3:2. From 1st April 2021, they decided to share profits equally. On that date below given balances appeared in their books: 6

Workmen Compensation Reserve = Rs. 1,20,000

Investment Fluctuation Reserve = Rs. 20,000

Investments (at cost) = Rs. 4,00,000

It was agreed that:

- (i) Goodwill of the firm be valued at Rs. 1,80,000.
- (ii) Investments be valued at Rs. 3,40,000.

Pass necessary journal entries.

- 32 The Balance Sheet of Anurag and Bhawna, who were sharing profits in the ratio of 2/3 and 1/3 as at 31st March, 2023 is given as under: 6

Liabilities	Rs.	Assets	Rs.
Creditors	65,900	Cash	1,200
Anurag's Capitals	30,000	Sundry Debtors	9,700
Bhawna's Capitals	20,000	Stock	20,000
		Plant & Machinery	35,000
		Building	50,000
	<u>1,15,900</u>		<u>1,15,900</u>

On 1st April, 2023 they agreed to admit Monika into partnership on the below given terms:

- (a) Monika was to be given 1/3 share in profits, and was to bring Rs. 15,000 as capital and Rs. 6,000 as share of goodwill.
- (b) That the value of stock and plant & machinery were to be reduced by 10%.
- (c) That a provision of 5% was to be created for doubtful debts.

- (d) That the building account was to be appreciated by 20%.
 (e) Investments worth Rs. 1,400 (not mentioned in the Balance Sheet) were to be taken into account.
 (f) That the amount of goodwill was to be withdrawn by the old partners.
 Pass necessary journal entries.

- 33 A, B and C are partners in a firm sharing profits in the ratio 1/2: 1/3 : 1/6. Their Balance sheet as on 31st march, 2023 was as follows: 6

Liabilities	(Rs.)	Assets	(Rs.)
Sundry Creditors	7,000	Bank	15,000
B/P	8,000	Debtors 18,000 Less: Provision 800	17,200
Investment Fluctuation Reserve	12,000	Stock	17,800
		Furniture	10,000
Capital A/Cs: A 30,000 B 20,000 C 10,000	60,000	Machinery Preliminary Expenses	21,000 6,000
	87,000		87,000

B retired on that date on the following conditions:

- (a) Provision for doubtful debts to be increased by Rs. 1,200.
 (b) Outstanding claim for damage of Rs. 800. to be provided.
 (c) Creditors to be reduced by Rs. 5,000 and Investment fluctuation reserve no longer required
 (d) Goodwill of the firm Rs. 18,000.

Prepare Revaluation Account and Partners' Capital Account.

- 34 A and B shared profits in the ratio of 3: 2. Their Balance Sheet as at 31st March, 2023 was as given under: 6

Liabilities	Rs.	Assets	Rs.
Creditors	20,000	Cash at Bank	7,000
A's Capitals	1,50,000	Debtors 40,000 Less: Provision for Doubtful Debt 1,800 -----	38,200
B's Capitals	90,000	Stock	54,800
		Machinery	40,000
		Land & Buildings	1,20,000
	<u>2,60,000</u>		<u>2,60,000</u>

Partners decide to dissolve the firm on the above date. Assets realised as given under:
 Stock Rs. 45,000; Machinery 20% less than book value, Debtors Rs. 35,000. Land and Buildings Rs. 30,000 more than the book value.
 Creditors agreed to accept 5% less. Expenses on realisation of assets amounted to Rs. 1,200.
 Pass necessary journal entries.

OR

The Balance Sheet of D, G and T as at 31.3.2023 is given as under:

Liabilities	Rs.	Assets	Rs.
D's Capital	1,00,000	G's Capital	20,000
T's Capital	1,50,000	Bank	26,000
Creditors	50,000	Sundry Debtors	30,000
Bills Payable	10,000	Stock	20,000
G's Loan	8,000	Furniture	15,000
R's Loan	12,000	Land and Building	2,45,000
Workmen Compensation Reserve	26,000		
	<u>3,56,000</u>		<u>3,56,000</u>

The firm was dissolved on the above date on the following given terms:

- (i) Debtors realized Rs.28,000; and creditors and bills payable were paid at a discount of 10%.
- (ii) Stock was taken over by T for Rs. 15,000 and furniture was sold to N for Rs. 12,000.
- (iii) Land and building was sold for Rs. 2,80,000.
- (iv) R's loan was paid by a cheque for the same amount.
- (v) There was an unrecorded asset of Rs. 1,50,000 which was sold for Rs. 1,00,000.
- (v) Compensation to workmen paid by the firm amounted to 20,000.

Prepare Realisation Account.

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

Class: XII

Maximum Marks: 80

Subject: Applied Mathematics

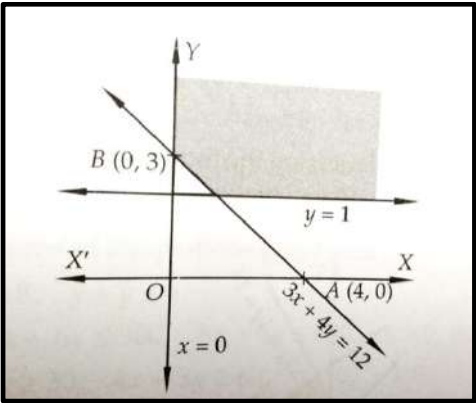
Time: 3 hours

General Instructions:

1. This Question paper contains 38 questions divided into five sections **A, B, C, D and E**. All questions are compulsory.
2. **Section A (Q. 1 to Q. 20)** has **18 MCQ's and 02 Assertion Reason** based questions of 1 mark each.
3. **Section B (Q. 21 to Q. 25)** has **5 Very Short Answer (VSA)** questions of 2 marks each.
4. **Section C (Q.26 to Q.31)** has **6 Short Answer (SA)** questions of 3 marks each.
5. **Section D (Q.32 to Q. 35)** has **4 Long Answer (LA)** questions of 5 marks each.
6. **Section E (Q. 36 to Q. 38)** has **3 source based/case based/passage based/integrated units of assessment** (04 marks each) with sub parts.
7. (a) Internal Choice is provided in 2 questions in **Section-B**, 2 questions in **Section-C**, 2 Questions in **Section-D**.
(b) **Section – E** has 3 case based questions, each of which contains three subparts. Internal choice has been provided in one of the subpart in those questions. You have to attempt only one alternatives in all such questions.

SECTION - A

1. The unit's digit in the expression of 7^{291} is 1
A) 3 B) 1 C) 7 D) 9
2. In what ratio must water be mixed with milk to gain $16\frac{2}{3}\%$ on selling the mixture at cost price? 1
A) 1 : 6 B) 6 : 1 C) 2 : 3 D) 4 : 3
3. If a matrix A is both symmetric and skew- symmetric then 1
A) A is diagonal matrix B) A is zero matrix
C) A is scalar matrix D) A is square matrix
4. If the demand function is $p(x) = 20 - \frac{x}{2}$, then the marginal revenue when $x = 10$ is 1
A) 5 B) 10 C) 15 D) 150
5. A man rows 1 km in 5 minutes, along the stream and 6 km in 1 hour against the stream. The speed of the stream is 1
A) 6 kmph B) 10 kmph C) 12 kmph D) 3 kmph
6. The function $f(x) = x^2 e^x$ strictly decreases on 1
A) $(-2, 0)$ B) $[0, \infty[$ C) $]-\infty, 0] \cup [2, \infty[$ D) $(-\infty, \infty)$
7. A is $2\frac{1}{3}$ times as fast as B. If A gives B a start of 80 meters, how long should the race course be so that both of them reach at the same time? 1
A) 170 meters B) 140 meters C) 160 meters D) 150 meters

8. A is a square matrix of order 3, such that $\det(A) = 2$ then the value of $|adj(adj(A))|$ is 1
 A) 13 B) 12 C) 17 D) 16
9. A cistern is filled in 20 minutes by three pipes A, B and C. The pipe C is twice as fast as B and pipe B is thrice as fast as pipe A. The time taken by pipe A alone to fill the tank is 1
 A) 200 minutes B) 205 minutes
 C) 352 minutes D) 180 minutes
10. If $f(x) = \sqrt{(13x + 7)}$, then $f''(0)$ is 1
 A) $-\frac{169}{28\sqrt{7}}$ B) $\frac{169}{28\sqrt{7}}$ C) $-\frac{169}{\sqrt{7}}$ D) $\frac{169}{\sqrt{7}}$
11. The minimum value of $f(x) = x^4 - x^2 - 2x + 6$ is 1
 A) 6 B) 4 C) 8 D) 10
12. Which one of the following is the correct relation between the average cost and the marginal cost? 1
 A) $\frac{d}{dx}(AC) = (MC - AC)$ B) $\frac{d}{dx}(MC) = \frac{1}{x}(MC - AC)$
 C) $\frac{d}{dx}(AC) = \frac{1}{x}(MC - AC)$ D) $(AC) = \frac{1}{x}(MC)$
13. The primitive of the function $f(x) = \frac{3x+5}{\sqrt{7x+9}}$ w.r.t x is 1
 A) $\frac{2}{49}(7x+9)\sqrt{7x+17} + c$ B) $\frac{22}{49}(7x+17)\sqrt{7x+9} + c$
 C) $\frac{2}{49}(x+17)\sqrt{7x+9} + c$ D) $\frac{2}{49}(7x+17)\sqrt{7x+9} + c$
14.  The solution set shown in the picture has 1
 been obtained by
 A) $3x - 4y \geq 12, y \geq 1, x \geq 0$
 B) $3x + 4y \geq 12, y \geq 1, x \geq 0$
 C) $3x - 4y \geq 12, y \leq 1, x \geq 0$
 D) $3x + 4y \geq 12, y \leq 1, x \geq 0$
15. The value of $\int_4^9 \frac{1}{\sqrt{x}} dx$ is 1
 A) 3 B) 2 C) 1 D) 6
16. If $\int x^2 e^x dx = x^2 e^x - 2g(x) + c$, where c is integration constant, then $g(x)$ is 1
 A) $e^x(x-1)$ B) $e^x(x+1)$ C) e^x D) $e^x x$
17. If, $x^4 + y^4 = 16$, then $\frac{d^2y}{dx^2}$ is 1
 A) $-\frac{48x^2}{y}$ B) $\frac{48x^2}{y^7}$ C) $-\frac{48x^2}{y^7}$ D) $-\frac{48x^3}{y^7}$

18. The maximum value of $\left(\frac{1}{x}\right)^x$ is 1
- A) e B) e^e C) $(e)^{\frac{1}{e}}$ D) $\left(\frac{1}{e}\right)^{\frac{1}{e}}$

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) : $|3x| \geq |6 - 3x| \Rightarrow x \in [1, \infty[$ 1

Reason (R) : $|x| \geq |y| \Rightarrow x^2 \geq y^2$

20. Assertion (A) : If $A = \begin{bmatrix} 2 & 3 \\ 4 & -9 \\ 5 & 0 \end{bmatrix}$ & $B = \begin{bmatrix} 1 & -2 \\ 3 & 5 \\ 0 & 7 \end{bmatrix}$, then $(A + B)^T =$ 1

$$\begin{pmatrix} 3 & 7 & 5 \\ 1 & -4 & 7 \end{pmatrix}$$

Reason (R) : $(AB)^T = B^T A^T$

SECTION - B

21. Suppose it is currently 8:00 AM. What time (in AM or PM) will be in next 500 hours? 2

22. If $A = \begin{pmatrix} 4 & 3 \\ 2 & 5 \end{pmatrix}$, find x and y such that, $A^2 - xA + yI = O$ 2

OR

Determine the values of x for which the matrix $A = \begin{pmatrix} x+1 & -3 & 4 \\ -5 & x+2 & 2 \\ 4 & 1 & x-6 \end{pmatrix}$ is singular.

23. Evaluate: $\int \frac{1}{\sqrt{4x^2-9}} dx$ 2

OR

Evaluate: $\int \frac{1}{\sqrt{x^2-4x+5}} dx$

24. Find the sum of the order and degree of the differential equation 2

$$5 \frac{d^2 y}{dx^2} = \left(1 + \left(\frac{dy}{dx} \right)^2 \right)^{\frac{3}{2}}$$

25. Find the slope of the tangent and normal to the curve $y = \frac{x-1}{x-2}$, $x \neq 2$ at $x = 10$. 2

SECTION - C

26. Two inlet pipes A and B when opened together can fill a tank in n hours. If inlet pipe A alone takes 'a' hours more than n to fill the tank completely and inlet pipe B alone takes 'b' hours more than n to fill the tank completely. Show that $n = \sqrt{ab}$. 3

27. Solve the inequality: $\frac{x+3}{x-2} \leq 2$ 3

OR

Solve the inequality: $\frac{2x+4}{x-1} \geq 5$

28. If $\begin{vmatrix} a+x & a-x & a-x \\ a-x & a+x & a-x \\ a-x & a-x & a+x \end{vmatrix} = 0$, using properties of determinant find x . 3

29. Find the inverse of the matrix $A = \begin{pmatrix} 2 & 1 & 3 \\ 4 & -1 & 0 \\ -7 & 2 & 1 \end{pmatrix}$ 3

OR

If, $A = \begin{pmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{pmatrix}$, verify that $A^3 - 6A^2 + 9A - 4I = O$ hence find A^{-1} .

30. If the marginal revenue function for output x is given by $MR = \frac{6}{(x+2)^2} + 5$, find the total revenue function and the demand function. 3

31. Using integration find the area of the region bounded between the line $x = 4$ & the parabola $y^2 = 16x$ 3

OR

Find the area bounded by the parabola $y^2 = 4ax$ and its latus rectum.

SECTION - D

32. Solve: $y - x \frac{dy}{dx} = a \left(y^2 + \frac{dy}{dx} \right)$ 5

OR

In a bank principal increases at the rate of 5% per year. In how many years Rs. 1000 will double itself?

33. A company suffers a loss of Rs. 121.50 if none of its products is sold. Marginal revenue and marginal cost functions for the product are given by: 5

$$MR = 30 - 6x \text{ \& } MC = -24 + 3x .$$

Determine the total profit function, the break-even points and the total profit between break-even points.

34. A transport company uses 3 types of trucks T_1, T_2, T_3 to transport 3 types of vehicles V_1, V_2, V_3 . The capacity of each truck in terms of 3 types of vehicles is given as follows: 5

	V_1	V_2	V_3
T_1	1	3	2
T_2	2	2	3
T_3	3	2	2

Using matrix method, find the number of trucks of each type required to transport 85, 105 and 110 vehicles of V_1, V_2, V_3 types respectively.

OR

A firm produces three products P_1, P_2 and P_3 processed on three machines M_1, M_2 and M_3 . M_1 can process 25 units of P_1 or 50 units of P_2 or 75 units of P_3 per hour. M_2 can process 50 units of each product per hour. M_3 can process 50 units of P_1 or 25 units of P_2 or 100 units of P_3 per hour. The processing hours available on M_1, M_2 and M_3 are 12, 12 and 13 respectively. Using Cramer's rule find the units of three products that can be produced with the available time fully used.

35. Find the solution set of the following linear inequations graphically: 5
 $x + y \leq 5, \quad 4x + y \geq 4, \quad x + 5y \geq 5, \quad x \leq 4 \text{ \& } y \leq 3$

SECTION – E

Case Based Questions

36. The relation between the height of the plant (y in cm) with respect to exposure to sunlight is governed by the following equation $y = 4x - \frac{1}{2}x^2$ where x is the number of days the plant is exposed to sunlight. Based on the above information answer the following questions:



- | | | |
|------|---|---|
| i) | Find the rate of growth of the plant with respect to the sunlight. | 1 |
| ii) | Find the number of days it will take for the plant to grow to the maximum height. | 1 |
| iii) | Find the maximum height of the plant. | 2 |

OR

Find the height of the plant after 2 days.

37. A long lasting company produces biscuits, whose marginal revenue functions of a commodity is given by
 $MR = 6x^2 - 5x + 2$.



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

- | | |
|--|---|
| a) Find the total revenue functions. | 1 |
| b) Find the corresponding demand function | 1 |
| c) Find the revenue obtained on selling 10 units of the product. | 2 |

OR.

If the production increases from 10 to 20 units, then find the increase in their revenue.

38. Two schools P and Q want to award their selected students on the values of Tolerance, Kindness, and Leadership. The school P wants to award Rs x each, Rs y each and Rs z each for the three respective values to 3, 2 and 1 students respectively with total award money of Rs. 2200. School Q wants to spend Rs 3100 to award its 4, 1 and 3 students on the respective values (by giving the same award money to the three values as school P). The total amount of award for one prize on each value is Rs1200.



- | | |
|---|---|
| i) Find the matrix equation that can be formed by the above conditions. | 1 |
| ii) Find the total money for tolerance. | 1 |
| iii) Find the total money for Leadership. | 2 |

OR

Find the total money for kindness.

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

Class: XII

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 is not a stage of active listening? 1
- a) Receiving
 - b) Understanding
 - c) Non-responding
 - d) Evaluating
- ii) Radha is helping her sister to overcome a personality disorder. What should she do? 1
- a) Talk to her sister
 - b) Engage her in hobbies
 - c) Help her build confidence
 - d) All of the above
- iii) ICT stands for 1
- iv) Which of the following can be a barrier to active listening? 1
- a) Noisy Environment
 - b) Non maintaining an eye contact with the speaker
 - c) Not being attentive
 - d) All of the above
- v) What do you mean by Self awareness? 1
- vi) What is the default alignment of numbers in a cell? 1
- a) Left aligned
 - b) Right aligned
 - c) Center aligned
 - d) Randomly aligned
- Q 2 Answer any 05 questions out of the given 7 questions 1x5**
- i) What is the maximum limit for a NEFT transfer per transaction ? 1
- a) No limit
 - b) Rs 50000
 - c) Rs 200000
 - d) Rs 1000000
- ii) CBS stands for _____ 1
- a) Central Banking system
 - b) Core Banking system
 - c) Core Banking solution
 - d) None
- iii) Which office of the bank known as the SWEAT SHOP? 1
- a) Front office
 - b) Middle office

- c) Back office
- d) None
- iv) Front end interest calculated is _____ than Back End Interest 1
- v) _____ can be returned for insufficient funds in the account 1
 - a) Cheque
 - b) Draft
 - c) Both (a) and (b)
 - d) None of the above
- vi) Statement I-CPU is the brain of a computer. 1
 Statement II- Tally is the accounting software available in the market.
 - a) Both the statements are false.
 - b) Both the statements are true
 - c) Statement I is true but Statement II is false
 - d) Statement I is false but statement II is true
- vii) Officers holding keys to the Grill door of the vault are known as _____ 1
 - a) Custodian
 - b) Officer
 - c) Manager
 - d) None of the above

Q 3 Answer any 06 questions out of the given 07 questions 1x6

- i) Brokerage fees is classified _____ interest income. 1
- ii) What is the full form of AML? 1
- iii) CPC stands for _____ 1
- iv) MIBOR stands for _____ 1
- v) Which is the safest cheque from the receiver point of view? 1
 - a) Account payee cheque
 - b) Bearer cheque
 - c) Crossed cheque
 - d) Demand draft
- vi) PIN stands for _____ 1
 - a) Personal Index Number
 - b) Personal Identification Number
 - c) Permanent Identification Number
 - d) None of the above
- vii) Interest paid by the bank on a loan is _____ 1
 - a) Income
 - b) Expense
 - c) Liability
 - d) Asset

Q 4 Answer any 05 questions out of the given 06 questions 1x5

- i) What is the full form of NSCCL? 1
- ii) CBS is based on _____ architecture . 1
- iii) _____ office is manages the risk for the bank. 1
- iv) In case of a deposit in a bank _____ is the Creditor. 1
- v) How many NEFT batches are run by RBI on Saturday? 1
 - a) 3
 - b) 6
 - c) 9
 - d) None of the above
- vi) Full form of PKI? 1

Q 5	Answer any 05 questions out of the given 06 questions	1x5
i)	RTA stands for_____	1
ii)	Full form of CORE_____	1
iii)	If everyone pay their share of amount owned to each it is known as_____.	1
iv)	Interest is always expressed in terms of _____ per annum.	1
v)	What is Performance Guarantee?	1
vi)	What is data validation?	1

Q 6	Answer any 05 questions out of the given 06 questions	1x5
i)	_____ guarantee assures that the bidder would undertake the contract he has bidder for, on the terms the bidding is done.	1
ii)	_____ are primarily machines to securely store and dispense bank notes.	1
iii)	Which activities are outsourced to the BPO?	1
	a) Front office	
	b) Middle office	
	c) Back office	
	d) None of the above	
iv)	Upward movement in prices in per annum term is known as _____	1
v)	SEBI stands for _____	1
vi)	Computerized accounting use _____ oriented applications.	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

Q 7	How to ensure active listening? State any four factors.	2
Q 8	What do you mean by Motivation?	2
Q 9	Explain any two advantages of digital presentation?	2
Q 10	Explain any two barriers to active listening.	2
Q 11	State any two steps to overcome personality disorders?	2

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

Answer each questions in 20-30 words

Q 12	State any two advantages of using a Letter of credit.	2
Q 13	What is Phishing?	2
Q 14	Explain any two duties of a Branch Manager as a Retail Banker.	2
Q 15	Rajiv deposited Rs. 100000 in a bank for 3 years which pay simple interest @10%p.a. Kalpana invested Rs. 100000 in other bank which pay compound interest @ 10% p.a. Who will receive more interest and how much?	2
Q 16	Name any two Depositories working in India .	2

Answer any 02 questions out of the given 03 questions. 3x2

Answer each questions in 30-50 words

Q 17	Explain any three disadvantages of selling Third-party products by the banks.	3
Q 18	Explain any three need of CBS.	3
Q 19	What are the security features implemented for a Bank Vault?	3

Answer any 03 questions out of the given 05 questions. 4x3

Answer each questions in 50-80 words

Q 20	Write any four benefits of NEFT.	4
Q 21	What are the benefits of online banking?	4
Q 22	Explain four functions of the back office of the Bank .	4

- Q 23** Calculate the due dates of the bills in the following cases- 4
- i) 1st December, 2022 for 60 days
 - ii) 29th May, 2022 for 4 months
 - iii) 23rd November, 2022 for 2 months
 - iv) 30th April, 2022 for 2 months
- Q 24** State any four Differences between Banker's Cheque and Demand Draft. 4
-

D.A.V. INSTITUTIONS, WEST BENGAL ZONE

HALF YEARLY EXAMINATION

SESSION: 2023 – 2024

CLASS: XII

MAXIMUM MARKS: 70

SUBJECT: BIOLOGY

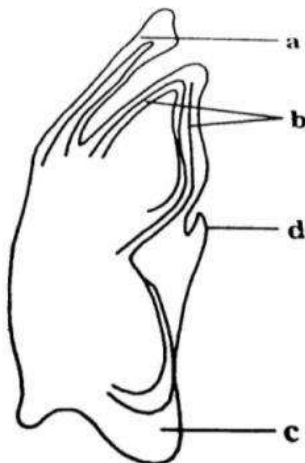
TIME: 3 HOURS

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
2. The question paper has five sections and 33 questions and 7 printed pages.
3. 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, Section E has 3 questions of 5 marks each,
4. There is no overall choice. However, internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions.
5. Wherever necessary, neat and properly labeled diagrams should be drawn.

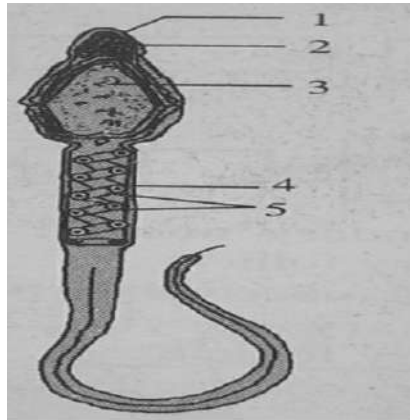
SECTION-A

- 1 Identify the parts labeled a, b, c, d and select the correct option. 1



- a) a-scutellum, b-epiblast, c-coleoptile, d-coleorhiza
b) a- scutellum, b- coleorhiza, c- coleoptile, d- epiblast.
c) a- scutellum, b- coleoptile, c- coleorhiza, d- epiblast
d) a- epiblast, b- coleoptile, c-coleorhiza, d- scutellum
2. If the base sequence of a codon in mRNA is 5' – AUG – 3' the amino acid coded by t RNA pairing with it must be :- 1
a) Alanine
b) Methionine
c) Phenylalanine
d) Valine
3. The correct sequence of mammalian mammary gland ducts beginning from the alveoli would be 1
a) Mammary tubules-Mammary ducts-Mammary ampulla-Lactiferous ducts
b) Lactiferous ducts - Mammary ducts - Mammary tubules -Mammary ampulla
c) Lactiferous ducts- Mammary ampulla -Mammary ducts- Mammary tubules
d)Mammary tubules- Mammary ampulla - Lactiferous ducts - Mammary ducts

4. Consider the parts labeled in 1, 2, 3, 4, 5 respectively in the following structure of a sperm and find out the correct sequences :- 1



- a) 1- Plasma membrane, 2- Acrosome, 3- Nucleus containing chromosomal material, 4-Neck, 5- Mitochondria
- b) 1- Plasma membrane, 2- Acrosome, 3- Nucleus containing chromosomal material, 4-Middle piece, 5- Golgi Body
- c) 1- Plasma membrane, 2- Acrosome, 3- Nucleus containing chromosomal material, 4-Middle Piece, 5- Ribosome
- d) 1- Plasma membrane, 2- Acrosome, 3- Nucleus containing chromosomal material, 4-Middle piece, 5- Mitochondria
5. Read the following statements and select the incorrect ones. :- 1
- (i) Pyramids of energy can never be inverted, since this would violate the laws of thermodynamics.
- (ii) Pyramids of standing crop and numbers can be inverted, since the number of organisms at a time does not indicate the amount of energy flowing through the system.
- (iii) There are certain limitations of ecological pyramids such as they do not take into account the same species belonging to two or more trophic levels.
- (iv) Saprophytes are not given any place in ecological pyramids even though they play a vital role in the ecosystem.
- a) (i) and (ii)
- b) (iii) and (iv)
- c) (ii) and (iii)
- d) None of these
6. Match the columns I and II and select the correct options given below:-

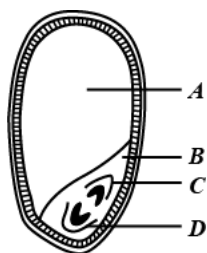
Column - I	Column - II
a. Pleiotropic gene	i. Both allele express equally
b. Co-dominance	ii. Change in nucleotide
c. Epistasis	iii. One gene shows multiple phenotypic expression
d. . Mutation	iv. Non-allelic gene inheritance

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

7. Medical Termination of pregnancy is safe upto:- 1
 a) 8 weeks of pregnancy
 b) 12 weeks of pregnancy
 c) 18 weeks of pregnancy
 d) 24 weeks of pregnancy
8. In sickle cell anaemia, the sequence of amino acids from the first to the seventh position of the β -chain of haemoglobin S (HbS) is:- 1
 a) His, Leu, Thr, Pro, Glu, Val, Val
 b) Val, His, Leu, Thr, Pro, Glu, Glu
 c) Thr, His, Pro, Val, Pro, Val, Glu
 d) Val, His, Leu, Thr, Pro, Val, Glu
9. Mendel's law of independent assortment is applicable if genes are located on:- 1
 a) Non-homologous chromosome
 b) Homologous chromosome
 c) Same chromosome
 d) All of these
10. Which one of the following is not observed in biodiversity hotspots :- 1
 a) Lesser interspecific competition
 b) Species richness
 c) Endemism
 d) Habitats of endangered, rare and protected plants, animals and fungi.
11. Residual persistent nucellus in Black Pepper is known as :- 1
 a) Pericarp
 b) Perisperm
 c) Perianth
 d) Pulvinus
12. Identify the element used by Hershey and Chase to label the Protein in their experiment, from the following options:- 1
 a) P^{32} b) S^{32} c) S^{35} d) P^{35}
- Question No. 13 to 16 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below.
- a) Both A and R are true and R is the correct explanation of A.
 b) Both A and R are true and R is not the correct explanation of A.
 c) A is true but R is false.
 d) A is false but R is true
13. Assertion: Groundnut and pea are non endospermic. 1
 Reason: They do not synthesize endosperm 1
14. Assertion: Saheli, the new oral contraceptive for the females contains a steroidal preparation. 1
 Reason: 'Saheli' is taken once in a week after initial intake of twice a week dose for 3 months
15. Assertion: In eukaryotes, transcription occurs in nucleus. 1
 Reason: In bacteria, transcription and translation occurs in cytoplasm.
16. Assertion: Pyramid of energy is always upright 1
 Reason: When energy flows from a particular trophic level to the next trophic level, some energy is always lost as heat at each step.

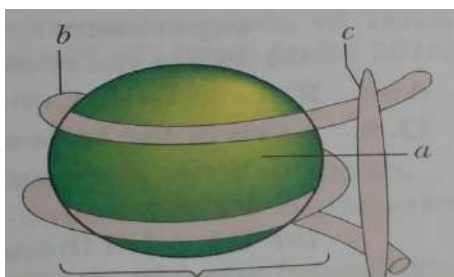
SECTION- B

17. Identify the parts labeled as A to D in structure of seed given below: 2



18. Parturition is induced by a complex neuroendocrine mechanism. Explain. 2
 19. i. What is the significance of a Test cross? 2
 ii. What would be the phenotypic ratio in monohybrid cross and dihybrid cross?

20. 2

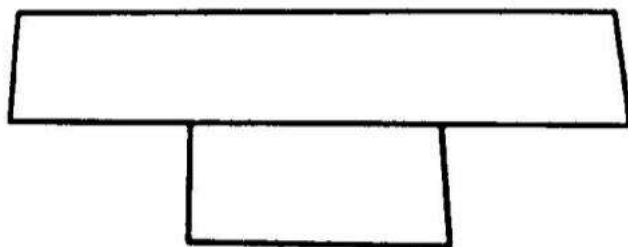


- i)What is this diagram representing?
 ii)Name the parts a, b and c

OR

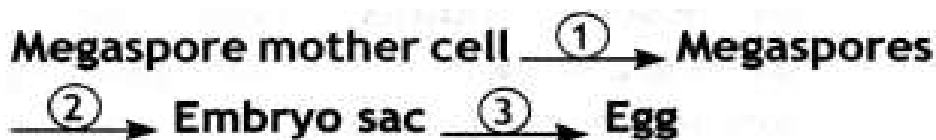
“Retrovirus do not follow central dogma”..... Comment

21. Identify the type of given ecological pyramid and give one example each of the pyramid of number and pyramid of biomass in such cases. 2



SECTION-C

22. Study the given diagram and answer the following questions 3



- i. a) Indicate the stage where meiosis occurs (1, 2 or 3) in the flow chart.
 b) Give an account of the significance of double fertilisation?

OR

List three strategies that a bisexual chasmogamous flower can evolve to prevent self pollination .

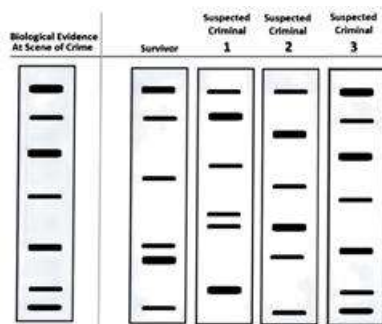
23. i. When and where do chorionic villi appear in humans ? State their function. 3
 ii. How does corpus luteum stay active throughout the pregnancy ?

24. i. Why is Saheli a well-accepted contraceptive pill ? 3
 ii. State one reason, why breastfeeding the baby acts as a natural contraceptive for the mother ?

25. Identify a, b, c, d, e and f in the table given below :- 3

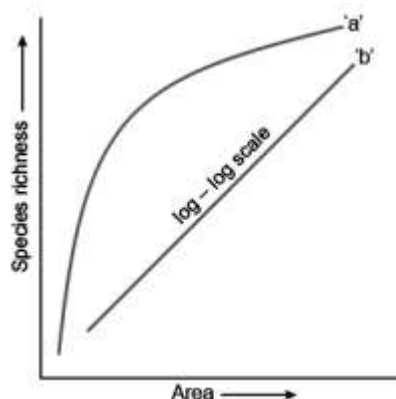
Syndrome	Causes	Characteristics of affected individual	Sex Male/Female/Both
Down's syndrome	Trisomy of 21	a	b
c	XXY	Overall masculine development	d
Turner's syndrome	45 with XO	e	f

26. Study the given diagram and answer the following questions :- 3



- i. From the above autoradiography result which suspect is the criminal? Give reasons.
 ii.) Explain DNA polymorphism and state the role of VNTR in DNA finger printing .

27. Study the given diagram and answer the following questions 3



- i) What is area species relationship ?
 ii) Write the equation for "a" and "b" .

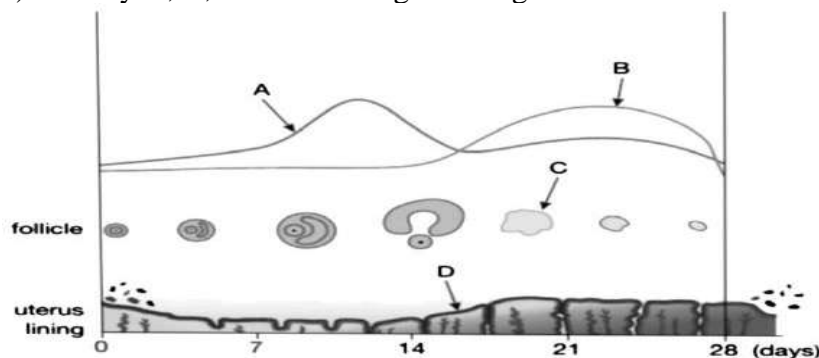
28. (i) Define primary productivity .
 (ii) What is the relation between gross and net primary productivity? 3
 (iii) GFC are major conduit of an aquatic ecosystem whereas DFC are more common in terrestrial ecosystem....Comment.

SECTION-D

29. During a temple visit, Priyanka came across her old friend and came to know that her friend had been visiting different temples and praying to get a child. Priyanka was astonished and told her friend about ART. Priyanka's friend got happy and understood her mistake. 4
- (i) Define the term ART.
- (ii) How is ART helpful, if the male partner has low sperm count in ejaculation?
- (iii) Name the ART that can be prescribed to woman who cannot produce ovum but can provide suitable environment for fertilization? Explain.
- OR**
- (iii) Mention any 2 limitations of ART.
30. The tropical rainforests are facing significant threats from deforestation due to logging, agriculture, and urbanization. As a result, several animal and plant species native to these rainforests are at risk of extinction. The government recognizes the importance of conserving their biodiversity and wants to implement conservation strategies 4
- a) Suggest any two ways to protect the biodiversity.
- b) What is the need to conserve biodiversity? (Any two points)
- c) Enlist any two consequences of biodiversity loss in a region.
- d) 'Sacred groves are highly protected' - Explain

SECTION-E

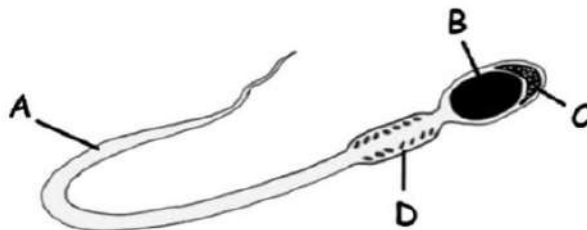
31. a) Identify A, B, C & D in the given diagram 5



- b) Explain the phases of menstrual cycle in human females.
- c) Why are menstrual cycles absent during pregnancy?

OR

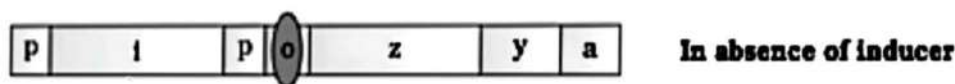
- i. Mention the parts marked A, B, C and D, in the given diagram.



- ii. What are essential for maturation and motility of the sperm?
- iii. State the function of the part labeled as D.
- iv. Why does spermatogenesis begin at puberty?

32. Study the given diagram and answer the following questions:-

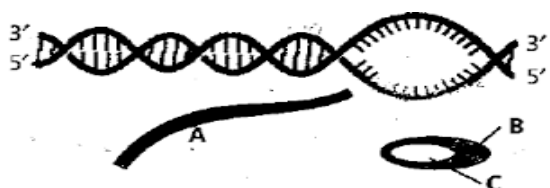
5



- Which of the gene shown here shows constitutive gene expression?
- What happens to that gene product in presence or in absence of lactose?
- Name the inducer molecule and the products of the genes 'z' and 'y' and 'a' of the operon.

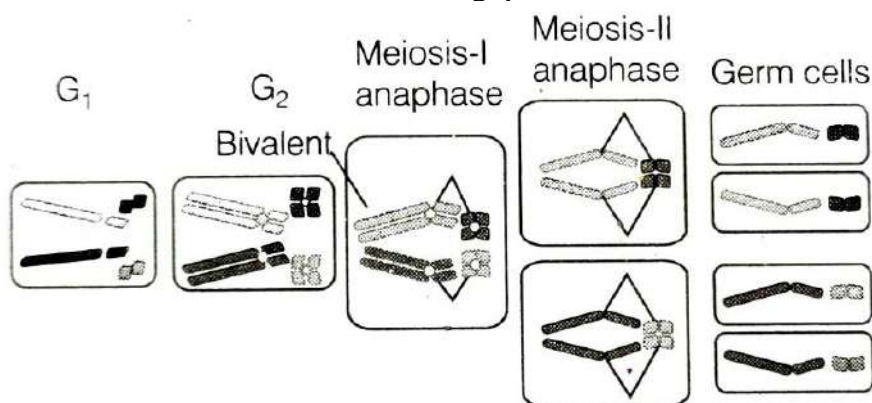
OR

Study the given diagram and answer the following questions.



- What does A, B and C represent in the diagram?
- Consider the cell is eukaryotic cell, A will be produced by which enzyme?
- Explain what additional processing are required for A?

33. Observe the given diagram of meiosis and germ cell formation in a cell with four chromosomes and answer the following questions:- 5



- Homologous chromosomes synapse during meiosis and get separated to pass into different cells. This is the basis for which law of inheritance, explain.
- Mention the significance of chromosomal theory of inheritance.
- Who has experimentally verified the chromosomal theory of inheritance and on which organism has he experimented.

OR

When a garden pea plant with violet flowers was crossed with another plant with white flowers, 50% of the progeny bear violet flowers.

- Work out the cross.
- Name the type of cross and mention its significance.
- Explain codominance taking an example of human blood groups in the population.

-----XXXXXXXXXXXXXXXXXXXXXXXXXXXXX-----

D.A.V INSTITUTIONS, WEST BENGAL ZONE

HALF YEARLY EXAMINATION

SESSION 2023 – 2024

CLASS: XII

MAXIMUM MARKS: 70

SUBJECT: CHEMISTRY

TIME: 3 Hours

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.

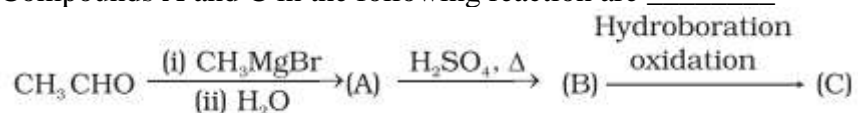
SECTION – A

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 Which of the following aqueous solutions should have the highest boiling point? 1
- (i) 1.0 M NaOH
 - (ii) 1.0 M Na₂SO₄
 - (iii) 1.0 M NH₄NO₃
 - (iv) 1.0 M KNO₃
- 2 An unripe mango placed in a concentrated salt solution to prepare pickle, shrivels because _____ 1
- (i) it gains water due to osmosis.
 - (ii) it loses water due to reverse osmosis.
 - (iii) it gains water due to reverse osmosis.
 - (iv) it loses water due to osmosis.
- 3 In a galvanic cell , the salt bridge – 1
- i. Does not participate chemically in the cell reaction.
 - ii. Stops diffusion of ions from one electrode to another.
 - iii. Should be composed of cations and anions of equal ionic mobilities.
 - iv. Ensures mixing of the two electrolytic solutions.
- (a) i and iv
 - (b) ii and iii
 - (c) iii and iv
 - (d) i and iii
- 4 Which one of the following statements is correct? 1
- (i) E_{Cell} and $\Delta_r G$ of cell reaction both are extensive properties.
 - (ii) E_{Cell} and $\Delta_r G$ of cell reaction both are intensive properties.
 - (iii) E_{Cell} is an intensive property while $\Delta_r G$ of cell reaction is an extensive property.
 - (iv) E_{Cell} is an extensive property while $\Delta_r G$ of cell reaction is an intensive property.

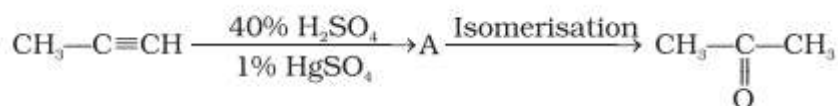
- 5 Consider the reaction, $2A + B \rightarrow \text{products}$. When concentration of B alone was doubled, the half-life did not change. When the concentration of A alone was doubled, the rate increased by two times. The unit of rate constant for this reaction is: 1
- s^{-1}
 - $\text{L mol}^{-1} \text{s}^{-1}$
 - mol s^{-1}
 - $\text{mol L}^{-1} \text{s}^{-1}$
- 6 Which of the following statements is not correct about the order of a reaction? 1
- The order of a reaction can be a fractional number.
 - Order of a reaction is experimentally determined quantity.
 - The order of a reaction is always equal to the sum of the stoichiometric coefficients of reactants in the balanced chemical equation for a reaction.
 - The order of a reaction is the sum of the powers of molar concentration of the reactants in the rate law expression.
- 7 For a reaction, $A+B \rightarrow P$ the rate law is given as: $\text{Rate} = K[A][B]^2$. If the concentration of A as well as B is doubled, the rate of reaction : 1
- increases by two times
 - increases by four times
 - increases by eight times
 - remains same
- 8 Identify the compound Y in the following reaction. 1
-
- (i)
- (ii)
- (iii)
- (iv)
- 9 How many alcohols with molecular formula $\text{C}_4\text{H}_{10}\text{O}$ are chiral in nature? 1
- 1
 - 2
 - 3
 - 4
- 10 Which of the following is most acidic? 1
- Benzyl alcohol
 - Cyclohexanol
 - Phenol
 - m-Chlorophenol

11 Compounds A and C in the following reaction are _____ 1



- (i) identical
- (ii) positional isomers
- (iii) functional isomers
- (iv) optical isomers

12 _____ 1



Name of 'A' and type of isomerism in the above reaction are respectively :

- (i) Prop-1-en-2-ol, metamerism
- (ii) Prop-1-en-1-ol, tautomerism
- (iii) Prop-2-en-2-ol, geometrical isomerism
- (iv) Prop-1-en-2-ol, tautomerism

In the following questions (Q.NO. 13 to 16) , a statement of Assertion(A) followed by a statement of Reason(R) is given. Choose the correct answer out of the following choices :

- (a) Assertion and reason both are correct statements and reason is correct explanation for assertion.
- (b) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
- (c) Assertion is correct statement but reason is wrong statement.
- (d) Assertion is wrong statement but reason is correct statement.

13. **Assertion:** Molarity of a solution in liquid state changes with temperature. 1

Reason: The volume of a solution changes with change in temperature.

- (i) Assertion and reason both are correct statements and reason is correct explanation for assertion.
- (ii) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
- (iii) Assertion is correct statement but reason is wrong statement.
- (iv) Assertion is wrong statement but reason is correct statement.

14. **Assertion:** Mercury cell does not give steady potential. 1

Reason: In the cell reaction, ions are not involved in solution.

- (i) Assertion and reason both are correct statements and reason is correct explanation for assertion.
- (ii) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
- (iii) Assertion is correct statement but reason is wrong statement.
- (iv) Assertion is wrong statement but reason is correct statement.

- 15 **Assertion :** Trichloromethane is stored in closed dark coloured bottles completely filled so that air is kept out. 1
Reason : It is slowly oxidised by air in the presence of light to an extremely poisonous gas, phosgene.
 (i) Assertion and reason both are correct statements and reason is correct explanation for assertion.
 (ii) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
 (iii) Assertion is correct statement but reason is wrong statement.
 (iv) Assertion is wrong statement but reason is correct statement.
- 16 **Assertion :** Alcohols react both as nucleophiles and electrophiles. 1
Reason : The bond between C–O is broken when alcohols react as nucleophiles.
 (i) Assertion and reason both are correct statements and reason is correct explanation for assertion.
 (ii) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
 (iii) Assertion is correct statement but reason is wrong statement.
 (iv) Assertion is wrong statement but reason is correct statement.

SECTION – B

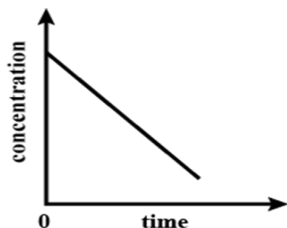
This section contains 5 questions with internal choice in one question. The following questions are very short answer type and carry 2 marks each.

- 17 State Kohlrausch's law of independent migration of ions and suggest a way to determine the Λ_m^0 value of water. 2
- 18 Solutions of two electrolytes 'A' and 'B' are diluted. The Λ_m of 'B' increases 1.5 times while that of A increases 25 times. Which of the two is a strong electrolyte? Justify your answer. 2

OR

What advantages do the fuel cells have over primary and secondary batteries? (Mention any two advantages).

- 19 For a certain chemical reaction variation in concentration [A] vs. time (s) plot is given below: 2



- (a) Predict the order of the given reaction?
 (b) What is the slope of the curve ?
- 20 (a) Arrange the isomeric dichlorobenzene in the increasing order of their melting points. 2
 (b) How can you obtain iodoethane from ethanol when no other iodine containing reagent except NaI /Acetone is available in the laboratory?
- 21 Illustrate the following reactions giving a chemical equation for each : 2
 (a) Kolbe's reaction.
 (b) Williamsons synthesis of an ether.

SECTION – C

This section contains 7 questions (Q. No. 22-28) with internal choice in one question. The following questions are short answer type and carry 3 marks each.

- 22 (a) The experimentally determined molar mass for what type of substance is always lower than the true value when water is used as solvent, explain. Give one example of such a substance and one example of a substance which does not show a large variation from the true value. 3
(b) An azeotropic mixture consisting of liquids A and B has a boiling point of 351.3K. The boiling points of pure A and B are 373K and 351.5K respectively. What type of deviation from Raoult's law does the mixture show?
- OR**
- (a) Why is it not possible to obtain pure ethanol from ethanol and water mixture by fractional distillation? What general name is given to binary mixtures which show deviation from Raoult's law and whose components cannot be separated by fractional distillation?
- (b) When 2 g of benzoic acid is dissolved in 25 g of benzene, the experimentally determined molar mass is always greater than the true value. Give reason.
- 23 3.9 gms of benzoic acid dissolved in 49 gms of benzene shows a depression in freezing point of 1.62K. [$K_f = 4.9 \text{ K kg/mol}$, Molar mass of benzoic acid = 122 g/mol] 3
(a) Calculate the van't Hoff factor.
(b) Predict whether it undergoes association or dissociation.
- 24 (a) Define cell constant. 3
(b) Calculate ΔG^0 for the following reaction at 25°C :
 $\text{Au(s)} + \text{Ca}^{2+}(\text{aq}) (1\text{M}) \rightarrow \text{Au}^{3+}(\text{aq}) (1\text{M}) + \text{Ca(s)}$
Given, $E^0 \text{Au}^{3+}/\text{Au} = +1.50\text{V}$; $E^0 \text{Ca}^{2+}/\text{Ca} = -2.87\text{V}$
Predict whether the reaction will be spontaneous or not.
- 25 (a) With the help of an example explain pseudo first order reaction. 3
(b) Show that in a first order reaction, the time required for 99% completion of the reaction is twice the time required for the completion of 90% of the reaction.
- 26 Answer the following: 3
(a) Use of thionyl chloride is preferred for preparing alkyl chlorides from alcohols. Explain why.
(b) Grignard reagent is prepared under anhydrous condition. Give reason.
(c) Of the two bromo derivatives, $\text{C}_6\text{H}_5\text{CH}(\text{CH}_3)\text{Br}$ and $\text{C}_6\text{H}_5\text{CH}(\text{C}_6\text{H}_5)\text{Br}$, which one is more reactive in $\text{S}_\text{N}1$ substitution reaction and why?
- 27 How are the following conversions carried out? 3
(a) Benzyl chloride to benzyl alcohol,
(b) Methyl magnesium bromide to 2-methylpropan-2-ol.
(c) Phenol to picric acid
- 28 Write the equations involved in the following reactions: 3
(a) Rosenmund reduction.
(b) Etard reaction
(c) Stephen reaction.

SECTION - D

The following questions (Q. No. 29-30) 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 solubility of gases increases with increase of pressure. William Henry made a systematic investigation of the solubility of a gas in a liquid. According to Henry's law "the mass of a gas dissolved per unit volume of the solvent at constant temperature is directly proportional to the pressure of the gas in equilibrium with the solution". Dalton during the same period also concluded independently that the solubility of a gas in a liquid solution depends upon the partial pressure of the gas. If we use the mole fraction of gas in the solution as a measure of its solubility, then Henry's law can be modified as "the partial pressure of the gas in the vapour phase is directly proportional to the mole fraction of the gas in the solution."
Read the above passage and answer the following questions:
(a) What is the relation of K_H with temperature?
(b) Write expression for Henry's law.
(c) Calculate solubility of methane in benzene at 298 K under 760 mm Hg. (Given Henry's constant = 4.27×10^5 mm Hg)

OR

(c) The partial pressure of ethane over a saturated solution containing 6.56×10^{-2} g of ethane is 1 bar. Find Henry's constant. If the solution contains 5.00×10^{-2} g of ethane then what will be the partial pressure (in bar) of the gas?

- 30 Alcohols are classified into three types i.e., primary, secondary and tertiary, depending upon the nature of the carbon atom to which alcoholic group is attached. These have common physical as well as chemical characteristics. However they differ in their relative reactivities towards different reagent. The popular tests which can distinguish the three types of alcohols are Victor Meyer test and Lucas reagent test.
(a) Why are alcohols weakly acidic in nature?
(b) What is Lucas reagent?
(c) What is the correct order of reactivity of the different alcohols involving the cleavage of C-OH bond? Explain the reason for this order.

OR

(c) In Lucas test, turbidity appears on heating. Predict the nature of the alcohol and also write the chemical equation involved in the reaction.

SECTION – E

The following questions (Q.No. 31-33) are long answer type and carry 5 marks each. All the questions have an internal choice.

- 31 (a) Determine the value of equilibrium constant (K_c) for the following reaction :
$$\text{Ni(s)} + 2\text{Ag}^+(\text{aq}) \rightarrow \text{Ni}^{2+}(\text{aq}) + 2\text{Ag(s)},$$
$$E^\circ = 1.05 \text{ V}, (1F = 96500 \text{ C mol}^{-1}), \text{antilog}(35.59) = 3.89 \times 10^{35}.$$

(b) Express the relation among cell constant, resistance of the solution in the cell and conductivity of the solution. How is molar conductivity of a solution related to its conductivity?
(c) Will the pH of brine (aqueous NaCl solution) solution be affected when it is electrolysed? Justify your answer.

OR

(a) The conductivity of 0.001 M acetic acid is 4×10^{-5} S/cm. Calculate the dissociation constant of acetic acid, if molar conductivity at infinite dilution for acetic acid is 390 S cm²/mol.

(b) Can you recharge lead storage battery and use again? What type of a cell is lead storage battery? Write the overall cell reaction that occurs when the lead storage battery is in use.

- 32 (a) For the reaction $A + B \rightarrow \text{products}$, the following initial rates were obtained at various given initial concentrations

5

S. No.	[A] mol / L	[B] mol / L	Initial rate M/s
1.	0.1	0.1	0.05
2.	0.2	0.1	0.10
3.	0.1	0.2	0.05

Determine the half-life period.

(b) Explain the function of a catalyst with the help of activation energy. Also draw a suitable graph.

OR

(a) a) A first order reaction is 50% complete in 30 minutes at 300 K and in 10 minutes at 320 K. Calculate activation energy (E_a) for the reaction.

[$R = 8.314 \text{ J K}^{-1} \text{ mol}^{-1}$] [Given: $\log 2 = 0.3010$, $\log 3 = 0.4771$, $\log 4 = 0.6021$]

(b) Write the two conditions for collisions to be effective collisions.

- 33 (a) What happens when :

5

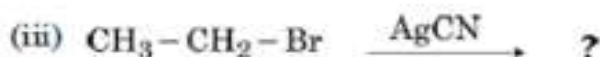
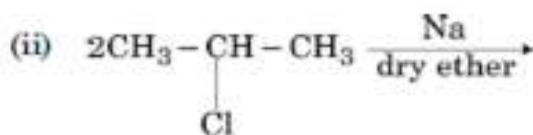
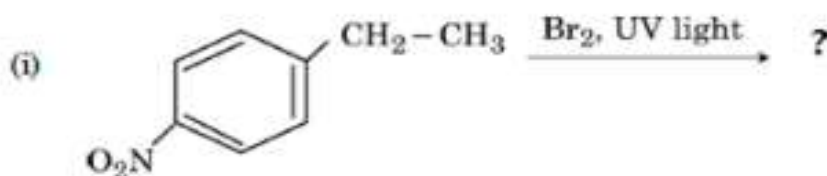
- (i) Chlorobenzene is treated with $\text{Cl}_2 / \text{FeCl}_3$.
- (ii) Ethyl chloride is treated with AgNO_2 .
- (iii) 2-bromopentane is treated with alcoholic KOH?

(b) Account for the following:

- (i) Benzyl chloride is highly reactive towards $\text{S}_{\text{N}}1$ reaction.
- (ii) Racemic mixture is optically inactive.

OR

(a) Write the major products of the followings:



(b) Compound 'A' with molecular formula $\text{C}_4\text{H}_9\text{Br}$ is treated with aq. KOH solution. The rate of this reaction depends upon the concentration of the compound 'A' only. When another optically active isomer 'B' of this compound was treated with aq. KOH solution, the rate of reaction was found to be dependent on concentration of compound and KOH both.

- (i) Write down the structural formula of both compounds 'A' and 'B'.
- (ii) Out of these two compounds, which one will be converted to the product with inverted configuration ?

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

Class: XII

Subject: Computer Science (083)

Maximum Marks: 70

Time: 3 Hours

General Instructions:

1. Please check this question paper contains 35 questions and 7 printed pages.
2. The paper is divided into 4 Sections- A, B, C, D and E.
3. Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
4. Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
5. Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
6. Section D, consists of 2 questions (31 & 32). Each question carries 4 Marks.
7. Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
8. All programming questions are to be answered using Python Language only.

Section - A

- 1 Which of the following is an invalid datatype in Python? 1
a) Set b) None c) Integer d) Real
- 2 Which of the following will give output as [23,2,9,75]. 1
If, L= [6,23,3,2,0,9,8,75]
a) print(L[1:7:2]) b) print(L[1:8:2]) c) print(L[0:7:2]) d) print(L[0:8:2])
- 3 Which of the following operator can be used with string data type? 1
a) // b) % c) + d) **
- 4 Name the built-in mathematical function/method that is used to return an absolute integer value of 1
given number.
a) abs() b) absolute() c) mod() d) fabs ()
- 5 Which of the following is the correct output for the execution of the following Python statement? 1
print(5+3**2/2)
a) 32 b)8.0 c) 9.5 d)32.0
- 6 To print all the elements of tuple in reverse order using..... 1
a)[:-1] b)::-1] c) [1:] d)[:,1]
- 7 Identify the output of the following Python statements. 1
x = [[10.0, 11.0, 12.0],[13.0, 14.0, 15.0]]
y = x[1][2]
print(y)
a) 12.0 b) 13.0 c) 14.0 d) 15.0
8. State True or False.: 1
“Given a dictionary StudDict. The statement StuDict.sort() returns the keys of the dictionary in sorted order”
- 9 Which of the following model is to be imported to use the floor() function? 1
a) statistics b) matplotlib c) random d) math
- 10 Which function is used to convert string into tuple? 1
a) string() b) tup() c) tuple() d) str_tuple()
- 11 Stack is a data structure that follows..... Order. 1
a) FIFO b) LIFO c) FILO d) SJF

20 What will be the output of following code? 2

```
def drawline(char='$',time=5):  
    print(char*time)  
drawline()  
drawline('@',10)  
drawline(65)  
drawline(chr(65))
```

OR

Differentiate between actual parameter(s) and a formal parameter(s) with a suitable example for each.

21 When are the following built-in exception raised? Explain with suitable example 2

i) ValueError ii) TypeError

22 Consider the following Stack of characters implemented as an array of 4 elements: 2

STACK=["A", "J", "P", "N"]

Describe and show the stack as the following operations take place :

- a) STACK.pop()
- b) STACK.append(K)
- c) STACK.append(S)
- d) STACK.pop()

OR

Evaluate the following postfix notation of expression. Show stack status after every expression.:

False, True, NOT, OR, True, False, AND, OR

23 What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also, specify the maximum values that can be assigned to each of the variables Lower and Upper. 2

```
import random  
Lst=[20,30,40,50,60,70]  
Lower=random.randint(1,3)  
Upper=random.randint(2,4)  
for k in range(Lower, Upper+1):  
    print(Lst[k],end="#")
```

- a) 10#40#70# b) 30#40#50# c) 50#60#70# d) 40#50#70#

24 What do you mean by lifetime of a variable? Explain the lifetime of global variables and local variables with the help of suitable example. 2

OR

With suitable example explain the difference between positional and key word argument.

25 Write the short notes on- 2

i) seek() ii) tell()

OR

Read the code given below.

```
Fh=open("Main.txt", "w")  
Fh.write("Bye")  
Fh.close()
```

If the file contains "Good" before execution, what will be the contents of the file after execution of this code? State the reason for the output also.

Section – C

- 26 Write a function in Python, Push(STItem) where , STItem is a dictionary containing the details of stationary items– {STname:STprice}. The function should push the names of those items in the stack who have price greater than 50. Also write a separate function to pop and display the stack as well as count no of elements pushed into the stack. 3

For example: If the dictionary contains the following data:

SITEM={"Pen":106,"Pencil":59,"Notebook":80,"Eraser":25}

The output should be: Notebook, Pencil, Pen

The count of elements in the stack is 3

- 27 Write a function sumcube(L) in Python to test if an element from list L is equal to the sum of the cubes of its digits i.e. it is an Armstrong Number. 3

Example: Original List t=[67, 153, 311, 96, 370, 405, 371, 955, 407]

Output List=[153, 370, 371, 407]

- 28 Write a function in Python to count the number of lines stored in a text file 'Story.txt' which start with letter 'A' or 'a'. (Consider the file contains data in multiple lines) 3

OR

Write a function in Python, which reads a file "data.txt" and copies its contents to another file "info.txt". While copying, replace all full stops with commas.

- 29 Write a function display() in Python which reads the integer elements from the previously created binary file 'Number.dat'. Display only those numbers which are either divisible by 7 or ends with digit 7. 3

- 30 Find out the output of the following code: 3

```
def func(x,y=100):
    temp = x + y
    x += temp
    if(y!=200):
        print(temp, x)
a=20
b=10
func(b)
print(a,b)
func(a,b)
print(a,b)
```

Section – D

- 31 Seema, a student of class 12th, is learning Exception Handling in Python. During examination, he has been assigned an incomplete python code (content shown below). Help him in completing the code which raised the exception.

4

```
print (" Learning Exceptions...")
try:
    num1= int(input ("Enter the first number"))
    num2=int(input("Enter the second number"))
    quotient=(num1/num2)
    print ("Both the numbers entered were correct", Num1, num2)
except _____: # 1 to enter only integers
    print (" Please enter only numbers")
except _____: # 2 Denominator should not be zero
    print(" Number 2 should not be zero")
except _____: # 3 the requested variable is not defined
    print("Variable is not Defined:")
_____: # 4 Will execute if no exception is generated
    print(" Great .. you are a good programmer, The Result is", quotient)
_____: # 5 to be executed at the end always
    print(" JOB OVER... GO GET SOME REST")
```

- 32 Aman is a Python programmer. He has written a code and created a binary file record.dat with employeeid, ename and salary (Consider this as the keys of the dictionary). The file contains 10 records. He now has to update a record based on the employee id entered by the user and update the salary. The updated record is then to be written in the file temp.dat. The records which are not to be updated also have to be written to the file temp.dat. If the employee id is not found, an appropriate message should be displayed. As a Python expert, help him to complete the following code based on the requirement given above:

4

```
import _____ #Statement 1
def update_data ():
    rec={ }
    fin=open ("record.dat", "rb")
    fout=open ("_____") #Statement2
    found=False
    eid=int(input(" Enter employee id to update their salary :: "))
    try:
        while True:
            rec = _____ #Statement3
            if _____: # Statement4
                found=True
                rec["salary"]=int (input ("Enter new salary :: "))
                pickle.dump(rec, fout)
            else:
                _____ #Statement5
    except:
        fin.close()
        fout.close()
```

```

if found==True:
    print("The salary of employee id ",eid," has been updated.")
else:
    print("No employee with such id is not found")
update_data()

```

- (i) Write the appropriate statement for Statement1 and Statement2.
- (ii) Write the Statement to read the data from the binary file, record.dat. (Statement 3)
- (iii) Write the Statement to check the appropriate condition for updating the Salary. (Statement 4)
- (iv) Statement to write the not matched records in the file, temp.dat (Statement 5)

Section – E

- 33 i) What is the difference between implicit type conversion and explicit type conversion? 2+3=5
 ii) Find and write the output of the following Python code:

```

str="Welcome!@Python"
m=""
for i in range(0,len(str)):
    if(str[i].isupper()):
        m=m+str[i].lower()
    elif str[i].islower():
        m=m+str[i].upper()
    else:
        if i%2==0:
            m=m+str[i-1]
        else:
            m=m+"#"
print(m)

```

- 34 i) Write a function INDEX_LIST(L), where L is the list of elements passed as argument to the function. The function returns another list named 'indexList' that stores the indices of all Non-Zero Elements of L. 3+2=5

For example: If L contains [12,4,0,11,0,56] The indexList will have - [0,1,3,5]

- ii) Predict the output of the following code:

```

def div5(n):
    if n%5==0:
        return n*5
    else:
        return n+5
def output(m=5):
    for i in range(0,m):
        print(div5(i),'@',end=" ")
    print('\n')
output(3)
output()

```

OR

i) Write a user defined function parser(L) that accepts a list as parameters and creates two other lists storing the number from original list, that are even and numbers that are odd.

Example: If the list contains [2,3,4,5,6,7,9,10] the output will be
OddList [3,5,7,9] and EvenList [2,4,6,8,10]

ii) Predict the output of the following code:

```
def fun1(x, y):  
    x = x + y  
    y = x - y  
    x = x - y  
    print('a=',x)  
    print('b=',y)  
a = 5  
b = 3  
fun1(a,b)
```

35 i) What is the advantage of using a csv file for permanent storage?

1+4

ii) Write a Program in Python that defines and calls the following user defined functions:

a) ADD() – To accept and add data of an employee to a CSV file 'record.csv'. Each record consists of a list with field elements as empid, name and mobile to store employee id, employee name and employee salary respectively.

b) COUNTR() – To count the number of records present in the CSV file named 'record.csv'.

OR

i) Give any one point of difference between a binary file and a csv file.

ii) Write a Program in Python that defines and calls the following user defined functions:

a) add() – To accept and add data of an employee to a CSV file 'furdata.csv'. Each record consists of a list with field elements as fid, fname and fprice to store furniture id, furniture name and furniture price respectively.

b) search()- To display the records of the furniture whose price is more than 10000.

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

Class : XII

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

- | | | |
|-------|--|------------------|
| Q. 1 | Answer any 4 out of the given 6 questions on Employability Skills | $1 \times 4 = 4$ |
| (i) | What is Paragraph? | 1 |
| (ii) | _____ is a state of feeling upset, annoyed and hopeless.
(Fill in the blank) | 1 |
| (iii) | Mona is helping her sister to overcome a personality disorder. What should she do?
(a) Talk to her sister (b) Engage her in hobbies
(c) Help her build confidence (d) All of the above | 1 |
| (iv) | A _____ is a collection of cells in the form of a grid (a network of lines that intersect each other, making rectangles). (Fill in the blank) | 1 |
| (v) | What is Passive Voice? Give an example. | 1 |
| (vi) | Name the first two stages of active listening. | 1 |
-
- | | | |
|------|--|------------------|
| Q. 2 | Answer any 5 out of the given 7 questions | $1 \times 5 = 5$ |
| (i) | Cost sheet and _____ are two approaches to output costing. (Fill in the blank) | 1 |

- (ii) The _____ is the price agreed to be paid by the contractee to contractor. (Fill in the blank) 1
- (iii) It provides a basis for determining the cost of similar jobs to be undertaken in future and quoting the appropriate price for the same. - is _____ of Job Costing: 1
- (a) feature (b) objective
(c) limitation (d) None of these
- (iv) Job No. 201 was in process at the end of the accounting period. The total cost involved in the Job is Rs. 15,000 of which Rs. 5,000 is direct material. Factory overhead is allocated to goods in process at 150% of direct labour cost. Compute the amount of direct labour charged to Job No. 201 1
- (a) Rs. 9,000 (b) Rs. 4,000
(c) Rs. 3,000 (d) None of these
- (v) Factory Cost is : 1
- (a) Prime cost and Office overheads
(b) Office cost and Office overheads
(c) Prime cost and Factory overheads
(d) Office cost and selling overheads
- (vi) Actual costing is not usually used because: 1
- (a) Actual overhead cannot be determined until the end of the year, which is too late for some decisions that need to be made.
(b) The actual units of the basis of allocation cannot be determined until the year is over, which is too late for some decisions that need to be made.
(c) Normal costing controls the inefficient use of resources.
(d) All of the above are reasons for not using actual costing
- (vii) Find out the value of raw material consumed for M/s Deepika from the following given information: 1
- | Particulars | Amount (Rs.) |
|-------------------------------|--------------|
| Opening stock of raw material | 55,000 |
| Closing stock of raw material | 15,000 |
| Purchases of raw material | 80,000 |

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

- (i) Which of these is to be adjusted before calculating the net work cost 1
- (a) Opening and Closing stock of raw material
(b) Opening and Closing stock of WIP
(c) Opening and Closing stock of finished goods
(d) Scrap
- (ii) The document which provides information regarding the progress of each job at each operation is known as: 1
- (a) Progress advice (b) Job ticket
(c) Job order (d) None of the above

- (iii) In the case of incomplete contract, in this case two-third of the notional profit reduced by proportion of cash received to work certified is transferred to Profit and Loss Account. The equation is: 1
- (a) $\frac{1}{3} \times \text{Notional Profit} \times \frac{\text{Cash Received}}{\text{Work Certified}}$
- (b) $\frac{2}{3} \times \text{Notional Profit} \times \frac{\text{Cash Received}}{\text{Work Certified}}$
- (c) $\text{Estimated Profit} \times \frac{\text{Work Certified}}{\text{Contract Price}}$
- (d) None of these
- (iv) _____ is prepared to ensure the timely completion of each job. This indicates the stages of completion of each job. Periodically, foreman of each job sends it to the production and planning department. 1
- (v) What is Work Uncertified? 1
- (vi) In the case the contract is nearing completion the profit to be taken to _____ is determined by deducting total estimated cost from the contract price. 1
- (vii) Overhead cost may be apportioned on suitable basis and credited to the contract account. (True/False) 1
- Q. 4 Answer any 5 out of the given 6 questions $1 \times 5 = 5$
- (i) Process costing is employed in businesses which involve _____ where the product moves in the production line through a same process or set of processes each distinct and well defined. (Fill in the blank) 1
- (ii) Overhead is the aggregate of _____ costs. (Fill in the blank) 1
- (iii) The _____ is not absorbed by the cost of production as it would unreasonably inflate the cost of production per unit rather it is transferred to Costing Profit and loss A/c. (Fill in the blank) 1
- (iv) Which among the following is/are the example of different methods of Costing? 1
- (a) Job Costing (b) Unit Costing
- (c) Both (a) and (b) (d) Neither (a) nor (b)
- (v) What is Job Costing? 1
- (vi) The work shall be judged by contractee's architect, surveyor or engineer who will issue certificate stating the value of work done so far and approved by him such work is known as work certified. (True/False) 1
- Q. 5 Answer any 5 out of the given 6 questions $1 \times 5 = 5$
- (i) Presentation of production account is made in _____ form. (Fill in the blank) 1
- (ii) Which one of the following costs would be an indirect cost in the manufacturing of a LCD? 1
- (a) Picture tube (b) Assemblers wages
- (c) LCD screen (d) Electricity

- (iii) Which account would be debited in recording a materials requisition for direct materials? 1
- (a) Raw Materials Inventory (b) Factory Overhead
(c) Raw Materials Purchases (d) Goods in Process Inventory
- (iv) When the contract is complete, the contractee's account is _____ and contract account is credited with the contract price. (Fill in the blank) 1
- (v) Output costing is also called as _____. (Fill in the blank) 1
- (vi) Batch Costing is defined as "that form of specific order costing which applies where similar articles are manufactured in batches either for sale or for use within the undertaking". (True/False) 1

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

- (i) Which among the following is an example of features of Joint Product: 1
- (a) can be sold after separation or after further processing
(b) determine cost per unit of the product
(c) help inventory valuation
(d) determine the price of each product
- (ii) Under _____ method, the management conducts a survey in order to collect all information of the factors involved. (Fill in the blank) 1
- (iii) In cost-plus contracts contractee agrees to pay to the contractor the cost price of the work done on the contract. (True/False) 1
- (iv) Office Cost is also known as: 1
- (a) Cost of Production (b) Administration Cost
(c) Both (a) and (b) (d) Neither (a) nor (b)
- (v) Production reports for the second quarter show the following data: 1

Month	Machine-Hours	Direct Labour Hours	Direct Materials Cost	Actual Overhead
April	9,000	12,000	Rs. 32,000	Rs. 45,020
May	12,000	10,000	Rs. 28,500	Rs. 60,000
June	10,000	9,000	Rs. 45,000	Rs. 50,100

Which variable would be the most likely basis for allocating overhead?

- (a) Machine-hours (b) Labour Hours
(c) Labour Cost (d) Materials Cost
- (vi) Work in Progress is in the form which is 1
- (a) Ready to be sold
(b) Ready to be used as raw material
(c) Ready to be worked upon for further processing
(d) Ready to be kept in warehouse

SECTION B: SUBJECTIVE TYPE QUESTIONS

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

Answer each question in 20 – 30 words.

- Q.7 Name acronym SMART to set goals. 2
- Q.8 Identify from the following (a) Interrogative (b) Exclamatory 2
(c) Declarative and (d) Imperative
- (i) Come with us right now.
- (ii) Reading mythology will make you more aware.
- (iii) My arms ache from planting those saplings!
- (iv) Where is my I-card?
- Q.9 Write in brief about Positive Attitude. 2
- Q.10 Write down about personality traits. 2
- Q.11 Name and draw a diagram to show the Communication Process. 2

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

- Q.12 Calculate Raw Materials Consumed during the year from the following 2
information:
Opening stock of raw materials Rs. 1,40,000
Closing stock of raw materials Rs. 1,60,000
Returns to suppliers Rs. 40,000
Raw materials purchased Rs. 2,60,000
- Q.13 Write any two features of Normal Loss. 2
- Q.14 Maya manufacturers provided following information regarding Job No. 814. Calculate the total cost of Job No. 814 2
- | Particulars | Amount (Rs.) |
|---------------------|--------------|
| Direct Materials | 5,000 |
| Direct Wages | 2,000 |
| Chargeable Expenses | 1,000 |
- Factory overheads are 55% on prime cost, and office overhead is 20% on works cost.
- Q.15 What is Joint Cost? 2
- Q.16 What is By Products? 2

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

- Q.17 The three joint products produced in a factory are A,B,C. 3
Their joint costs is Rs.60,000.
Quantities produced are as follows: A 2,000; B 800; C 1,200.
On the basis of technical evaluation, points allotted to products A, B, C are 3.2, 5 and 8% per unit respectively. Apportion the joint cost.
- Q.18 Describe in brief the determination of Economic Batch Quantity. 3
- Q.19 2,000 units of raw material were introduced in a process at a cost of Rs. 8,000. The normal wastage allowed is 10%, each unit of waste realizes Rs. 3

2.5. The actual production was 1,700 units (with abnormal wastage of 100 units). The expenses being as follows: Direct wages Rs. 13,000 Indirect expenses Rs. 6,500 Prepare the process account to show the effect of wastage.

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

- Q.20 Find out the Total cost and Factory overheads for Shivaay & Sons from the following given information: 4

Particulars	Amount (Rs.)
Prime cost	45,400
Factory cost	52,600
Office overheads	12,500
Opening stock of finished goods	1,000
Closing stock of finished goods	1,500
Salesman salary	5,000

- Q.21 Write down any two merits and demerits of Job Costing. 4

- Q.22 The following information has been collected from the costing records of 4

Alpha Manufacturing Company regarding job no. 3107:

Materials costing Rs. 8,020

Wages:

Deptt. A 120 hours @ Rs. 3 per hour

Deptt B 80 hours @ Rs. 2 per hour

Deptt C 20 hours @ Rs. 5 per hour

Overheads:

Variable overheads:

Deptt. A Rs. 7,000 for 7000 labour hours

Deptt. B Rs. 5,000 for 2,500 labour hours

Deptt. C Rs. 4,000 for 1,000 labour hours

Fixed Overheads:

Estimated at Rs. 2,000 for 10,000 normal working hours.

You are required to calculate the cost of Job No. 768 and calculate the price to give profit of 25% on selling price.

- Q.23 Write down any four differences between job costing and process costing on the basis of the following points: 4

(a) Cost Unit

(b) Nature

(c) Completion of job

(d) Cost Computation

- Q.24 Write down any four features of Contract Costing. 4

4. From the set of statements given in column-I and column-II choose the correct pair of statements. 1

COLUMN I	COLUMN II
A) Money Supply	i) Total volume of money held by the Government
B) Currency and coins with public	ii) Legal tender money.
C) Barter Exchange	iii) Exchange of goods for money.
D) Demand Deposit	iv) Non-withdrawable deposit.

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

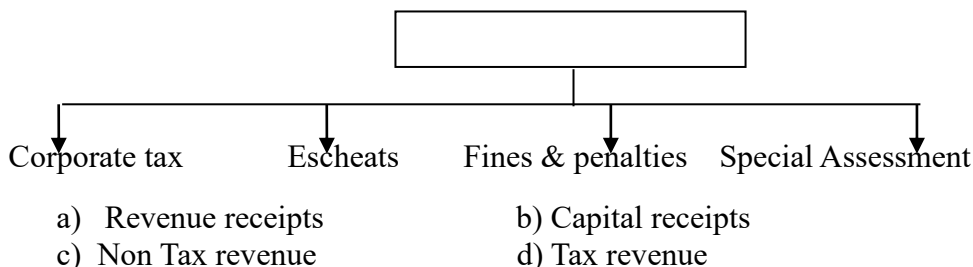
5. 'People save money in various forms to meet contingencies, unpredictable emergencies and to pay future debts. Which function of money is being highlighted in the given statement? 1
- a) Standard of Deferred Payments
b) Store of value
c) Measure of value
d) Medium of exchange
6. In the following questions, read the following question: Assertion (A) and Reason (R). 1
Choose the correct alternative among those given below.

Assertion (A) : Demand deposits act as a convenient mode of payment for execution of even high value transactions.

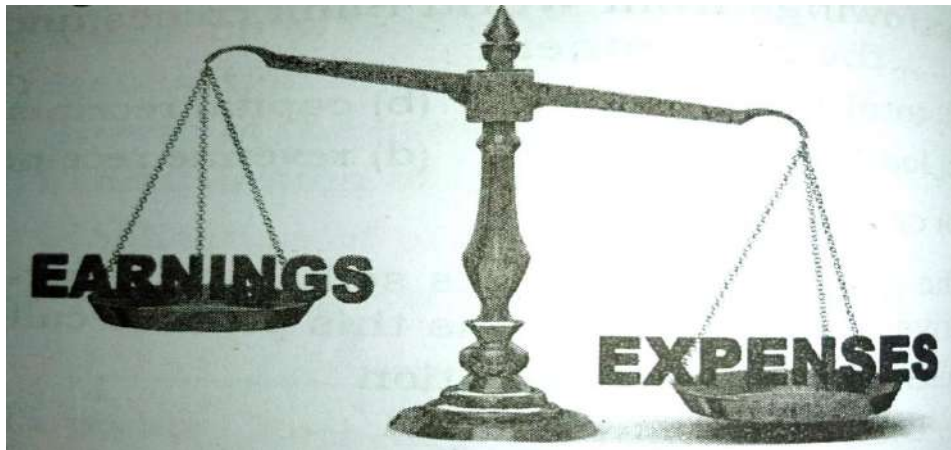
Reason (R): Demand deposits are non-withdrawable in nature and cannot be withdrawn against issue of cheques and other similar instruments of payments.

Alternative:

- 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 (A) is true but Reason (R) is false.
d) Assertion (A) is false but Reason (R) is true.
7. Complete the given flow chart 1



8. Which of the following situations of government budget is represented in the image given below :



- a) Budget deficit b) Budget surplus
c) Balanced budget d) none of these

9. Two statements are given in the question below as Assertion (A) and Reason (R). Read the statements and choose the appropriate option. 1

Assertion (A): Repayment of borrowing is a capital expenditure.

Reason (R): Capital expenditure does not reduce the liability of the Government.

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.

10. Read the following statements : Assertion (A) and Reason (R). Choose one of the correct alternative given below:

Assertion (A): Public goods are non – rivalrous.

Reason (R): The benefits of such goods can be enjoyed by all & are not restricted to any one person.

Alternatives:

- Both Assertion (A) & Reason (R) are True & Reason (R) is the correct explanation of Assertion (A).
- Both Assertion (A) & Reason (R) are True & Reason (R) is not the correct explanation of Assertion (A).
- Assertion (A) is true but Reason (R) is False.
- Assertion (A) is False but Reason (R) is True

- 11 Can a person be the citizen of one country and at the same time a resident of another country? Explain. 3

12. The Monetary Policy Committee (MPC) announced on 8th June 2023 that the Repo rate was increased by 25 basis points. This makes the current Repo rate 6.50%. Analyse the economic value of this statement from the viewpoint of
i) the household ii) investors iii) the economy.

OR

Government of India has launched 'Jan-Dhan Yojna' aimed at every household in the country to have at least one bank account. Explain how deposits made under the plan are going to affect national income of the country.

13. The positive relationship between GDP and Welfare suffers from certain limitations. Explain any two of them. 4
- OR
- State when:
- a) Domestic factor income will be equal to Net National Product at factor cost? 1x4
- b) National income at market price is less than National income at Factor cost?
- c) $GDP_{MP} = NDP_{MP}$?
- d) Gross value of output at Market price = Gross value added at Market price?
14. Classify the following statements as Revenue receipts or Capital receipts. Give valid reasons in support of your answer. 4
- i) Financial help from a multinational corporation for victims in a flood affected area.
- ii) Sale of shares of a Public Sector Undertaking to a private company.
- iii) Dividends paid to the Government by the State Bank of India.
- iv) Borrowing from Asian Development Bank by the Government of India.
15. a) State a situation where fiscal deficit occurs in a government budget without any revenue deficit. 1
- b) Calculate Revenue Deficit, Fiscal Deficit & Primary Deficit from the following: 1+1+1
- | Items | (Rs.in Crores) |
|--|----------------|
| i) Revenue Expenditure | 22250 |
| ii) Capital Expenditure | 28000 |
| iii) Revenue receipts | 17750 |
| iv) Capital receipts (net of borrowing) | 20000 |
| v) Interest payments | 5000 |
| vi) Borrowings | 12500 |
16. a) Giving valid reasons explain which of the following will not be included in estimation of NI of India? 1+1+1
- i) Contribution to Social Security Scheme paid by employee
- ii) Death duties, gift tax & Wealth tax
- iii) Income from illegal activities
- b) Calculate the value added by Firm C on the basis of following data : 3
- | Items | Rs. in crores |
|----------------------------|---------------|
| i) Sale by Firm A to B | 50000 |
| ii) Value added by Firm B | 10000 |
| iii) Value added by Firm D | 9000 |
| iv) Sale by Firm C to D | 70000 |
| v) Final sale | 100000 |
- OR
- a) How should the following be treated while estimating NI? Give reasons for your answer. 1+1+1
- i) Interest received by households from banks
- ii) Dividends received by shareholders
- iii) Profit earned by the branch of an Indian bank in France

b) Calculate i) Operating Surplus ii) Domestic Income

Items	Amount (Rs. in crores)
i) COE	2000
ii) Rent & interest	800
iii) Indirect taxes	120
iv) Corporation tax	460
v) Consumption of fixed capital	100
vi) Subsidies	20
vii) Dividend	940
viii) Undistributed profits	300
ix) Net factor income to abroad	150
x) Mixed Income	200

17. Answer the following questions:

2x3=6

- Differentiate Bank Rate and Repo Rate.
- Discuss the impact of demonetisation of Rs 1000 and Rs 500 currency notes on credit creation by the commercial banks in the Indian economy.
- What is the impact of increase in the Reverse Repo Rate by RBI on inflation?

SECTION B – INDIAN ECONOMIC DEVELOPMENT

18. Arrange the following in their chronological order.

1

- Suez Canal was opened.
- First official census in India was conducted.
- TISCO was incorporated.
- Battle of Plassey.

Options :

- 1,2,3,4.
- 4,1,2,3.
- 2,3,1,4.
- 3,1,2,4.

19. Consider the following statement with respect to Indian Industries and mention the correct statement .

1

- Industrial Policy resolution was adopted in 1956
- Karve Committee was set up in favour of small-scale industries
- In 1991, Industrial Licensing policy was abolished for the improvement of Industries.

- Only I
- Only II and III
- None of the above
- All of the above.

20. _____ are short term policy measures taken to improve the BOP situation in an economy.

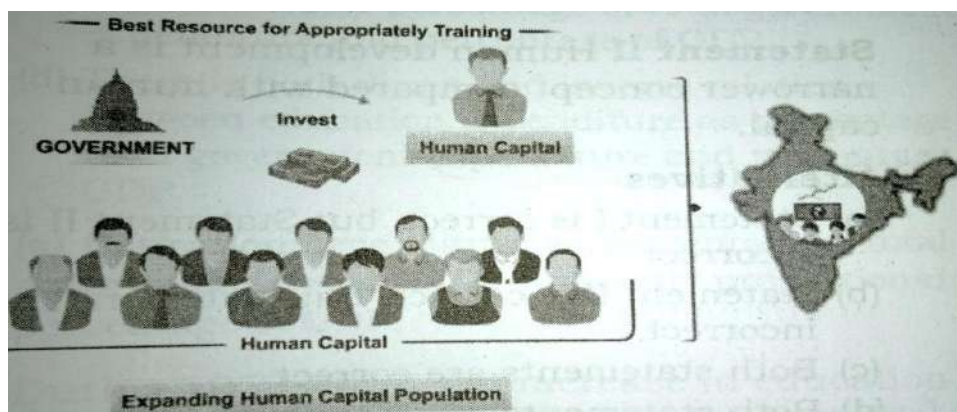
1

- Structural measures
- Stabilisation measures
- Reconstruction measures
- Developmental measures

21. Which of the following statement is not true for globalization? 1
- It will improve allocative efficiency of resources.
 - It will redistribute economic power
 - It will impose tariff barriers among nations
 - It will provide updated technology

22. Identify the incorrect statement in context of human capital. 1
- Human capital is intangible in nature.
 - Human capital is perfectly mobile.
 - Human capital is inseparable from its owner
 - Human capital can not be sold in the market like commodity.

23. Look at the picture given below & identify the process 1



- Human formation
 - Human capital formation
 - Human development
 - Both (b) & (c)
24. Two statements are given in the question below as Assertion (A) and Reason(R). Read the statements and choose the appropriate option. 1

Assertion (A): There was stagnation in the agriculture sector on the eve of Independence.

Reason (R): Britishers introduced land settlement system in India.

Option:

- 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.
25. In the following question a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct alternative among those given below. 1
- Assertion (A):** British levied no tariffs on export of raw material from India to Britain.
- Reason (R):** Under the colonial rule, Indian handicrafts sectors suffered a massive decay.
- Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 - Both Assertion and Reason are true and Reason is not the correct explanation of Assertion.
 - Assertion is true but Reason is false.
 - Assertion is false but Reason is true.

26. In the following question a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct alternative among those given below. 1
- Assertion (A):** Equal distribution and equitable distribution of income mean the same thing.
- Reason (R):** GDP growth is a common goal of Five-Year Plans in India.
- 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.
27. In the following question a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct alternative among those given below. 1
- Assertion (A):** India is emerging as an important outsourcing destination of the world.
- Reason (R):** India offers an abundant supply of labour at a low wage rate.
- 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.
28. a) Who is known as the architect of Indian Economic Planning? 1+2
- b) Name any one measure taken under land reform by the Government after Independence with the objective of equity in agriculture. Mention one reason why this measure could not be fully successful.
29. Briefly state any three measures taken under Industrial policy reforms in the New Industrial Policy taken on July, 1991. 3
- OR (a+b)
- a) Name two ways by which privatization could be done.
- b) Why did Government start granting 'Navratnas' status to PSU's? 1+2
30. Critically appraise the shortfalls of the industrial policy pursued by the British colonial administration. 4
31. Agriculture sector appears to be adversely affected by the reform process. Why? 4
32. a) 'There is a downward trend in inequality world-wide with a rise in the average education level'. Comment. 2+2
- b) Bring out the need for on-the-job training for a person.
- OR 2+2
- a) Education is considered an important input for development of a nation. How?
- b) In your view, is it essential for the government to regulate the fee structure in education and health care institutions? If so, why?
33. A) Why was public sector given a leading role in Industrial Development during planning period? Explain any two reasons. 4+2
- B) Why is it said that subsidies may lead to wasteful use of resources. Give any one reason.
- OR
- a) Name the trade policy which was taken when India entered into planned development era in 1950's. 1+1+4
- b) What was the basic objective of that policy?
- c) Briefly explain the measures taken to fulfil that objective.

34. **Read the following text carefully and answer the following questions:**

India raises global human resources by harnessing young population

Remarkably, over 1 billion individuals in India belong to the working-age population, showcasing the country's immense potential and human capital

With a staggering population of over 1.4 billion, India emerges as a veritable powerhouse, representing approximately 18 per cent of the world's total population.

Positioned favourably within the Demographic Transition Model, India finds itself in a highly advantageous stage, with a significant portion of its population comprising the youth demographic.

Remarkably, over 1 billion individuals in India belong to the working-age population, showcasing the country's immense potential and human capital. Projections indicate that by 2030, India will achieve its lowest dependency ratio in history, standing at a mere 31.2 per cent.

This pivotal development heralds the dawn of a prosperous era, characterized by a burgeoning young population ready to contribute to society. This flourishing young population is not only a valuable asset for India but also holds immense significance for the global community.

Through strategic investments in education, skill development, and healthcare, this burgeoning human resource will evolve into a vital human capital, not only benefiting India but also catering to the diverse needs of the world.

Projections reveal that India is set to supply approximately 24.3 per cent of the global workforce over the next decade, solidifying its position as the foremost provider of human resources worldwide.

With nearly 26 per cent of the population below the age of 14 years and nearly 67 per cent in the age group 15 to 64 years, India has a median age of 28.4 years which is relatively very young compared to most other major economies.

For instance, the median age in Japan is 48.6 years, in the USA is 38.5 years, and in China, it is 38.4 years. Considering a rapidly ageing population in the developed countries which will pose a challenge with respect to labour supply, India's role as the provider of the workforce becomes massively significant.

The human resource of India is well poised to bring it a competitive advantage in the manufacturing and services sectors.

India is also witnessing a rising trend in women empowerment, both in terms of the Gross Enrolment Ratio (GER) and the Female Labour Force Participation Rate (LFPR). About 49 per cent of the total enrolment in higher education in India now comprises of women.

Source: Business Standard 3rd June 2023

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

- | | |
|---|---|
| a) Define the term human capital formation. | 2 |
| b) Briefly elaborate how India has gained an advantageous position in the world economy due to human capital formation. | 4 |

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

CLASS: XII
SUBJECT: ENGLISH CORE

MAXIMUM MARKS: 80
TIME: 3 HOURS

General Instructions:

1. The Question Paper contains THREE sections-READING, WRITING and LITERATURE.
2. Attempt questions based on specific instructions for each part.

Section A: Reading Skills (22 marks)

1. **Read the following passage carefully and based on your understanding of it answer the questions that follow.**

12

1. No one would have believed in the last years of the nineteenth century that this world was being watched keenly and closely by intelligences greater than man's and yet as mortal as his own; that as men busied themselves about their various concerns they were scrutinized and studied, perhaps almost as narrowly as a man with a microscope might scrutinize the transient creatures that swarm and multiply in a drop of water. With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most, terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to welcome a missionary enterprise. Yet across the gulf of space, minds that are to our minds as ours are to those of the beasts that perish, intellects vast and cool and unsympathetic regarded this earth with envious eyes, and slowly and surely drew their plans against us. And early in the twentieth century came the great disillusionment.

2. The planet Mars revolves about the sun at a mean distance of 140,000,000 miles, and the light and heat it receives from the sun is barely half of that received by this world. It must be, if the nebular hypothesis has any truth, older than our world; and long before this earth ceased to be molten, life upon its surface must have begun its course. The fact that it is scarcely one seventh of the volume of the earth must have accelerated its cooling to the temperature at which life could begin. It has air and water and all that is necessary for the support of animated existence.

3. Since Mars is older than our earth, it necessarily follows that it is not only more distant from time's beginning but nearer its end. The cooling that must someday overtake our planet has already gone far indeed with our neighbor. In its equatorial region, the midday temperature barely approaches that of our coldest winter. Its air is much more attenuated than ours; its oceans have shrunk until they cover but a third of its surface. That last stage of exhaustion, which to us is still incredibly remote, has become a present-day problem for the inhabitants of Mars. The immediate pressure of necessity has brightened their intellects, enlarged their powers, and hardened their hearts. And looking across space with instruments, and intelligences such as we have scarcely dreamed of, they see, at its nearest distance only 35,000,000 of miles sunward of them, a morning star of hope, our own warmer planet, green with vegetation and grey with water, with a cloudy atmosphere eloquent of fertility, with glimpses through its drifting cloud wisps of broad stretches of populous country and narrow, navy-crowded seas.

4. And we men, the creatures who inhabit this earth, must be to them at least as alien and lowly as are the monkeys and lemurs to us. The intellectual side of man already admits that life is an incessant struggle for existence, and it would seem that this too is the belief of the minds upon Mars. Their world is far gone in its cooling and this world is still crowded with life, but crowded only with what they regard as inferior animals. To carry warfare sunward is, indeed, their only escape from the destruction that, generation after generation, creeps upon them.

5. And before we judge them too harshly we must remember what ruthless and utter destruction our own species has wrought, not only upon animals, such as the vanished bison and the dodo, but upon itself. The Tasmanians were entirely swept out of existence in a war of extermination waged by European immigrants in the space of fifty years. Are we such apostles of mercy as to complain if the Martians warred in the same spirit? - Adapted from *The War of the Worlds* by H. G. Wells

- i. The underlined word “infusoria” in the first paragraph most nearly means _____. 1
 - a. predators
 - b. bubbles
 - c. microscopic organisms
 - d. pieces of non-sentient matter
- ii. The third paragraph describes Earth’s appearance in detail in order to _____. 1
 - a. explain why the Martians hesitated in attacking it
 - b. provide evidence in support of the nebular hypothesis
 - c. describe the Earth as it looked in the narrator’s childhood
 - d. contrast it with Mars’ condition
- iii. The comparison made in the final paragraph serves to _____. 1
 - a. explain why the Martians might want to attack earth
 - b. encourage the reader to root for the Martians in a Martian-human war
 - c. make humanity’s chance of winning a war against the Martians seem impossible
 - d. emphasize a similarity between humanity and the Martians
- iv. According to the author, what would be the primary reason for the Martians to attack Earth? 1
 - a. to destroy the Earth
 - b. to kidnap human scientists
 - c. to colonize a habitable planet
 - d. To wipe out humanity before we can evolve to become a threat
- v. What is the assertion supported by “nebular hypothesis”? 2
- vi. What was the fancy of terrestrial men? 2
- vii. What can be attributed to Mars’ accelerated cooling? 2
- viii. Which word in paragraph 3 is an antonym of ‘strengthened’? 1
- ix. Replace the underlined word in the sentence below with a synonymous word in paragraph 4. 1
As a champion of human rights, she launched ceaseless campaign against the death penalty.
2. **Read the following passage carefully and based on your understanding of it answer the questions that follow.** 10

I. Research from the Publishers Association has shown that films based on books take 44% more at-the-box office revenue in the UK and 53% more worldwide than original screenplays. The report explores what impact a book has when adapted for film and TV.

II. The report reads: “Published material is the basis of 52% of top UK films in the last 10 years, and accounts for an even higher share of revenue from these leading performers, at 61% of UK box office gross and 65% of worldwide gross.” The Hollywood adaptation of “My Cousin Rachel” was shown to have a significant impact on the sales of the Daphne Du Maurier thriller that’s why the sales of the book in 2017 alone accounted for 23% of all sales since 1992.

III. The research suggests that adapted films tend to perform better because films can “leverage the popularity” of well-known books through an existing audience. Films adapted from books also tend to have a richer, more fully-developed story to draw on. In terms of the TV adaptation, it was revealed that a quarter of dramas were based on literary sources and attracted a 56% larger share of the audience than those based on original scripts. Fourteen of the 35 high-end series produced in the UK in the period between January and September 2017 were based on books, compared to seven based on true stories or historical events and five based on pre-existing films or TV stories.

IV. In the case of the 2016 BBC broadcast of “The Night Manager”, research revealed that while the novel was in circulation for over 25 years, 82% of the copies it sold were in 2016 and 2017. Sales of the paperback edition remained strong in 2017 even after the series went off the air.

V. In conclusion, the report states that “there is a strong two-way relationship between publishing and the wider creative economy, wherein a successful adaptation often has spill-over effects and gives a substantial boost to the sales of the original book.”

- i. “The Hollywood adaptation of ‘My Cousin Rachel’ was shown to have a significant impact on the sales of the Daphne Du Maurier thriller...”
Which of the statements best explains the quoted text?
A. “My Cousin Rachel” is a Hollywood movie directed by Daphne Du Maurier.
B. Daphne Du Maurier was the scriptwriter of the Hollywood movie called “My Cousin Rachel”.
C. Daphne Du Maurier is the author of the book ‘My Cousin Rachel’ adapted into a Hollywood movie.
D. Daphne Du Maurier wrote the thriller ‘My Cousin Rachel’ after watching its Hollywood movie version. 1
- ii. Which of the following statements is not true? 1
A. Original screenplays and films based on books have different success rates in terms of box-office revenue.
B. In the last 10 years books have been the key to the success of top movies in the UK.
C. The adapted movie called ‘My Cousin Rachel’ had a share of 23% of revenue at the box office in 1992.
D. At times, films can also increase the popularity of a book from which it has been adapted.
- iii. Cite an example from the text to prove that a film or a TV series can promote the sale of a book after many years of its publication. Answer in about 40 words. 2
- iv. “Sales of the paperback edition remained strong in 2017” Choose the statement that justifies the expression ‘paperback edition’. 1
A. My friend is waiting for a book to be published once again without a hardcover at a lower price.
B. I will buy the latest edition of the book after reading its latest review in the newspaper.
C. The book my sister has bought is also being published in episodes in the newspaper on a daily basis.
D. Teenagers don’t have enough time to read the original book hence they prefer to read the shorter version or abridged version of the book.
- v. Films adapted from books are of good quality because 1
A. the audience appreciates them a lot
B. they are adapted from the books of renowned authors only.
C. the authors of those books generally make those films.
D. the plot of those films is wholesome and better.

- vi. Complete the sentence appropriately. 1
The TV series based on pre-existing films or TV series at the end of the list while compared to series based on books, historical events or true stories in the year 2017 in the UK.
- vii. State TRUE or FALSE. 1
The adapted films do better because the audience of those films come to watch the films after reading the books from where they have been adapted.
- viii. 'There is a two-way relationship between books and the screen'. Substantiate. 2

SECTION B: WRITING SKILLS (18 marks)

3. **Attempt any one of the following.**
- A. You are Rachael/Rueben, President of the Wellness Cell of your school. You decide to organize a workshop, to raise awareness of the importance of mental health. This workshop would be conducted by the school counselor. Write a notice in about **50 words**, informing the students of class XI-XII about the workshop. 4
- OR
- B. You are Sonal /Sanjay, the Secretary of the Literary Club of your school. You plan to organize an educational tour to Goa to attend a creative writing workshop, for students of class 12 during the autumn break. Prepare a notice in about **50 words**, giving important details such as the schedule of the tour, expenses to be incurred, consent letter from the parents and the last date of enrollment. 4
4. **Attempt any one of the following.**
- A. You are Dr. Heider, a board certified music therapist from Manipur. You have been invited by A.N. Public School, Nagaland, to a seminar on 'Where Words Fail Music Speaks'. As the keynote speaker, you have been requested to address the students, sharing your invaluable expertise on the umpteen benefits of music therapy in combating stress and challenges of our times. Write your reply, in about **50 words** accepting the invitation. 4
- OR
- B. You are Ridhima/Ridhaan of C-45, Castle Street, Kalimpong. You are hosting a party in honor of your mother, to celebrate her recent completion of postdoctoral research. You wish to invite your best friend, Noami, write an invitation in 50 words giving all necessary details. 4
5. **Attempt any one of the following.**
- A. You are Kaveri/Krishna Rao, a resident of Casa Mila, Bengaluru, Karnataka. You are a conscientious and law-abiding citizen who is disturbed at the callousness of young bikers flouting traffic rules. Write a letter to the editor of New Dawn, Bengaluru, in about 120-150 words voicing your concern and highlighting the threat that reckless driving poses to one and all. Suggest ways in which schools and colleges can become instrumental in driving home the message of road safety and compliance. 5



OR

- B. You are Delnaz/Dilawar, a resident of Galaxy Tower, Bandra, Mumbai, Maharashtra. You wish to pursue a career in software designing. Xenobyte Corporation, a technology giant has advertised the requirement of a software developer, in the local newspaper. You are excited at the prospect and decide to apply for the post. Write a letter in 120-150 words, responding to the given advertisement, submitting your candidature with a detailed bio-data. 5

XENOBYTE CORPORATION

SOFTWARE DEVELOPER NEEDED

WANTED a software developer; with diploma/degree in computer science & at least 5 yrs. experience in software programming and excellent inter-personal and problem-solving skills. Salary negotiable; other perks & allowances. Apply with bio-data, addressed to the CEO, at 56-D, Techspire Building, Worli, Mumbai.

6. **Attempt any one of the following.**

You are Sameer/Sanjana, a member of Health club of your school. You are disturbed at the increasing instances of students facing stress due to examinations. Write an article in 120-150 words to be published in your school magazine on "How to Beat Examination Stress". You may use the cues given below along with your own ideas. 5

- Caring for physical and mental well-being
- Being disciplined
- Preparing and following timetable for preparation
- Regular revisions
- Listening to inspiring podcasts

OR

- A. You are Sachin/Shaiyya. You attended a debate on "Welcome Youth in Politics" organised by your school. Write a report on the event in about 120-150 words to be published in the next edition of your school newsletter. You may use the cues given below along with your own ideas. 5

- Large gathering- helipad ground
- Contagious energy, vibrant decoration
- Inauguration by District Magistrate
- Rabindrasangeet and dance, Speeches by dignitaries.

SECTION C: LITERATURE (40 marks)

7. **Attempt any one of the following.**

- A. Read the extract given below and answer the questions that follow. 6

*If we were not so single-minded
about keeping our lives moving,
and for once could do nothing,
perhaps a huge silence
might interrupt this sadness
of never understanding ourselves
and of threatening ourselves with
death.*

- i. What do you think is the mood of the poet in the above extract? 1
 a. gloomy, cynical b. bitter, cynical
 c. introspective, aware d. critical, demotivated
- ii. Pick the option that completes the given sentence suitably, as per the extract. 1
 Being single-minded ascertains _____
 a. introspection and serenity. b. focused on a single thought.
 c. mindless rushing through life. d. goal-oriented planning.
- iii. What does the phrase “huge silence” signify? 1
- iv. What has Neruda implied by the phrase ‘do nothing’? 1
- v. What positive changes can be observed if ‘we were not so single minded’? 1
- vi. How do we end up being our own worst enemies? 1

OR

- B. Read the extract given below and answer the questions that follow. 6
- And such too is the grandeur of the dooms
 We have imagined for the mighty dead;
 All lovely tales that we have heard or read;
 An endless fountain of immortal drink,
 Pouring unto us from the heaven’s brink.*
- i. ‘All lovely tales’ evoke the feeling of _____. 1
 a. sadness. b. nostalgia. c. inspiration. d. pride.
 - ii. The rhyme scheme of the last four lines is - 1
 a. aabb b. abab c. aaab d. abbb
 - iii. What is the implication of the phrase, ‘An endless fountain of immortal drink’? 1
 - iv. Mention the type of imagery used in the following lines. 1
*An endless fountain of immortal drink,
 Pouring unto us from the heaven’s brink.*
 - v. Pick a word from the above extract which means, ‘magnificence’. 1
 - vi. What grants the ‘mighty dead’ immortality? 1

OR

8. **Attempt any one of the following.** 4
- A. Read the extract given below and answer the questions that follow.
- In other words, the Tiger King is dead.*
- The manner of his death is a matter of extraordinary interest. It can be revealed only at the end of the tale. The most fantastic aspect of his demise was that as soon as he was born, astrologers had foretold that one day the Tiger King would actually have to die.*
- “The child will grow up to become the warrior of warriors, hero of heroes, champion of champions. But...” They bit their lips and swallowed hard. When compelled to continue, the astrologers came out with it. “This is a secret that should not be revealed at all. And yet we are forced to speak out. The child born under this star will one day have to meet its death.”*
- i. What zodiac sign does ‘this star’ refer to? 1
 a. Sagittarius b. Capricorn c. Taurus d. Leo
 - ii. Through the so-called prophetic words of the astrologers, what has the author intended to achieve? 1
 - iii. What is the tone of the narrator in the sentence, ‘The most fantastic aspect of his demise was that as soon as he was born, astrologers had foretold that one day the Tiger King would actually have to die’? 1
 - iv. Why has the author included a super-natural element in a story which otherwise has no extra ordinary unearthly instance? 1

OR

- B. Read the extract given below and answer the questions that follow. 4
- Students on Ice, the programme I was working with on the Shokalskiy, aims to do exactly this by taking high school students to the ends of the world and providing them with inspiring educational opportunities which will help them foster a new understanding and respect for our planet. It's been in operation for six years now, headed by Canadian Geoff Green, who got tired of carting celebrities and retired, rich, curiosity-seekers who could only 'give' back in a limited way. With Students on Ice, he offers the future generation of policy-makers a life-changing experience at an age when they're ready to absorb, learn, and most importantly, act.*
- i. The phrase 'policy-makers' refer to 1
a. celebrities b. high-school students c. politicians d. legislators
- ii. Complete the following sentence with reference to the extract. 1
The writer refers to the educational opportunities as inspiring because.....
- iii. Why does the writer refer to 'act' as more important than 'absorb' or 'learn'? 1
- iv. Which word in the extract means 'to take something or someone somewhere'? 1
9. **Attempt any one of the following.** 6

- A. Read the extract given below and answer the questions that follow.
- I crossed to oblivion, and the curtain of life fell.
The next I remember I was lying on my stomach beside the pool, vomiting. The chap that threw me in was saying, "But I was only fooling." Someone said, "The kid nearly died. Be all right now. Let's carry him to the locker room."
Several hours later, I walked home. I was weak and trembling. I shook and cried when I lay on my bed. I couldn't eat that night. For days a haunting fear was in my heart. The slightest exertion upset me, making me wobbly in the knees and sick to my stomach.*
- i. "But I was only fooling." 1
The above sentence reveals that the speaker
a. has a great sense of humour.
b. intended to make Douglas laugh.
c. intended to have a good laugh at Douglas' expense.
d. is a good Samaritan.
- ii. Mention the figure of speech in the phrase, 'curtain of life'. 1
- iii. Find a word in the above extract that is synonymous to, 'unstable'. 1
- iv. Did crossing to 'oblivion' deter Douglas from conquering fear? 1
- v. Mention the phrase that appropriately describes the terror that accompanied Douglas like a shadow. 1
- vi. Through which sentence has Douglas recounted one of the most vulnerable moments of his life? 1

OR

- B. Read the extract given below and answer the questions that follow. 6
- "Since you have been so nice to me all day long, as if I was a captain, I want to be nice to you, in return, as if I was a real captain — for I do not want you to be embarrassed at this Christmas season by a thief; but you can give back the money to the old man on the roadside, who has the money pouch hanging on the window frame as a bait for poor wanderers. The rattrap is a Christmas present from a rat who would have been caught in this world's rattrap if he had not been raised to captain, because in that way he got power to clear himself".*

- i. 'The Rattrap' is a story about second chances and coincidences. 1
In the light of the above statement, choose the option that is true.
a. The crofter's generosity gave the peddler his second chance.
b. The ironsmith's kindness paved the path for the peddler to reform himself.
c. Edla's compassion brought out the very best in the peddler.
d. The ironmaster's rebuke made the peddler repentant.
- ii. "but you can give back the money to the old man on the roadside," 1
The peddler wished to return the money to its rightful owner because _____.
a. he had had a change of heart.
b. he feared being caught by the police.
c. he knew his secret was out.
d. he no longer needed the money.
- iii. What does the confession in the extract above say about the peddler? 1
- iv. How did the Christmas morning disprove the ironmaster's opinion of the peddler 1
- v. What is the microcosmic version of the world as mentioned in the above extract? 1
- vi. Find a word in the above extract that is a synonym of, 'lure'. 1
10. **Answer any five of the following questions in 40 to 50 words each.** 10
- i. Reading 'A Thing of Beauty' is a multi-sensory experience. Justify the statement. 2
- ii. Why did the peddler derive pleasure from his idea of the world as a rattrap? 2
- iii. What did M Hamel say about the importance of language to the "enslaved" people? 2
- iv. The poem 'Keeping Quiet' is replete with symbols. Interpret any 2 symbols used in the poem that establish Neruda as a symbolist. 2
- v. 'Seemapuri, a place on the periphery of Delhi yet miles away from it, metaphorically'. State the reason why the writer says this. 2
- vi. Discuss the contrasting images employed in the poem, 'My Mother At Sixty Six'. 2
11. **Answer any two of the following questions in 40-50 words each.** 4
- i. Charley's yearning for the past mirrors the challenges of his times. Elucidate the statement with substantial reasons. 2
- ii. How did the trip to Antarctica prove to be a chilling prospect for a South Indian, Tishani Doshi? 2
- iii. Discuss how the story 'The Tiger King' satirizes the duplicity of British officials. 2
12. **Answer any one of the following questions in 120-150 words.**
- i. The poem 'Keeping Quiet' deals with theme of universal peace and brotherhood with a surrealist approach. Comment. 5
- ii. "Dialogue and non-violence can resolve situations of conflict and injustice." Prove the statement with reference to the lesson 'Indigo'. 5
13. **Answer any one of the following questions in 120-150 words.**
- i. Why does Tishani Doshi call her trip to Antarctica a "Journey to the End of the Earth"? How did the expedition inspire her to write about it? 5
- ii. How has Kalki adopted an ecocritical approach towards the indiscriminate killing of tigers in the story, 'The Tiger King'? 5

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

CLASS: XII

MAXIMUM MARKS: 70

SUBJECT: ENTREPRENEURSHIP

TIME: 3 HOURS

General Instructions:

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

SECTION-A

1. Rima joined a Publication Company that publishes a monthly magazine covering articles related to fitness, clothing, gadgets, cooking etc. She joined the clothing division of the magazine. Her divisional head explained her nature of work. She also informed Rima that in addition to visits to local mall she would have to attend 'Power lunches' on the first Sunday of every month to catch the latest in trend and fashion. Out of the following identify the way of spotting trend, the divisional head is talking about? 1
 - A. Talk trends
 - B. Read trends
 - C. Watch trends
 - D. Think trends
2. Samira started her small-scale business of making Potato Chips along with few of her neighbours using their free time at home. They named their venture 'Lazzat Papad'. They were able to supply the entire district. One of the members suggested that they should expand and start selling to other states. When she discussed the same to one of her friends who has established herself as a successful entrepreneur, she suggested that they have to properly look into the environment analysing the competitors. She suggested Samira to 1
 - A. Formulate policies
 - B. Tap useful resources
 - C. Environment scanning
 - D. Image building
3. Amit came up with an idea of producing wall cladding tiles, apartment walkways and swimming pools using shredded plastic. He went through the process of studying the pros and cons of manufacturing. The stage of creative process discussed above is: 1
 - A. Germination
 - B. Preparation
 - C. Incubation
 - D. Illumination
4. Arun a graduation student during a survey on usage of electronic gadgets found that the parents particularly of school going children are worried about the content being viewed by their children on mobile phones and were not able to control them.
So, he decided to develop an app that may help parents to watch and control the children regarding their activity in mobile phones.
From the following identify the idea field used by Arun to develop the app: 1

- A. Market driven idea.
 - B. Service-related idea.
 - C. Trade related idea.
 - D. Creative efforts.
5. Deepshikha wanted to pitch in to reduce the financial crisis prevailing in her house and thought of working as a cook. She started working in three different households, one Punjabi, one Gujrati and one South Indian family. She soon realized that all the three households had different cuisine. It was indeed a challenge for her to learn the techniques of the cuisine. All the families greatly appreciated the timeframe within which she had mastered the local cuisine. After working for them for a year, she decides to open a small eating joint of her own along with two of her friends by the name 'Apna Bhoj'. They decided to share profits equally and that each of them will be liable for acts performed by the other two. Soon the eatery became a hot spot because of the fusion platter which was being offered. 1
- Identify the kind of business organisation which was set up by Deepshikha and her friends.
- A. Sole Proprietorship
 - B. Partnership Firm
 - C. Cooperative Society
 - A. Company
6. "Picturising ahead every step in a long series of separate operations, each step to be taken in the right place of the right degree, and at the right time and each operation to be done at maximum efficiency", quoted Alford and Beathy, is the objective of _____. 1
- A. an operational plan.
 - B. an Organizational plan.
 - C. a Production plan.
 - D. a Market Plan.
7. Deepak and Gaurav joined the prestigious law university in Ahmedabad in the year 2018. During the course of study, they became good friends and they both realized that their common interest lies in the field of corporate law. After completion of their degree, they decided to start a firm of corporate law of their own, namely "Corpo Law Firm" wherein they decide that any of them can act on behalf of the firm and the firm stands bound by the acts of them.
- Which of the following characteristic of their business, does this situation imply? 1
- A. Mutual agency.
 - B. Implied authority.
 - C. Utmost good faith.
 - D. Contract agreement.
8. Rajiv while working on the financial plan for his business realised that his financial requirements will be for fixed assets and their installations, preliminary expenses, working capital, expenses on research and development, investment in short term assets viz. raw materials etc. To decide the sources of funds he tried to ensure the selection of best overall mix of financing for his enterprise.
- Identify the element/s of financial plan discussed here: 1
- A. Proforma investment decisions.
 - B. Proforma financing decisions.
 - C. Both (a) and (b).
 - D. Neither (a) nor(b).

9. The electronics company LG introduced a new type of screen that is flexible enough to roll up like a newspaper. LG wants to exclude other manufacturers from making, using, selling and importing this invention for a limited period of time. The intellectual property right that LG has to acquire is: 1
- A. Copyright
 - B. Patent
 - C. Industrial Design
 - D. Trademark
10. 'Individual branding' is? 1
- A. Entrepreneur opts to use a common or successful family name for their several products.
 - B. Entrepreneurs choose to utilise their corporate name or logo together with some brand names of individual products.
 - C. Entrepreneur uses alpha-numeric names to signify physical characteristics of the product.
 - D. Entrepreneur chooses distinct names for each of his offerings.
11. AIDA in the context of good advertising consists of 1
- A. Attractive, Interest, Desire, Action
 - B. Attractive, Interest, Desire, Attention
 - C. Attractive, Internal, Development, Action
 - D. Attention, Interest, Desire, Action
12. When a manufacturer selects some channel of distribution, related to the quality and nature of the product, which of the following factor/s, he/she should take care of? 1
- A. Unit Value of Product.
 - B. Technical nature.
 - C. Perishability.
 - D. All of the above.
13. From the following identify the type of franchising in which a company provides a business owner with a proven method for operating a business using the name and trademark of the company. Also the company usually provides a significant amount of assistance to the business owner in starting and managing the company. 1
- A. Product franchise business opportunity.
 - B. Manufacturing franchise opportunity.
 - C. Business franchise opportunity.
 - D. Business format franchise opportunity.
14. What is common among McDonalds, Goli vada pav, Naturals Ice-creams and Ferns-and-petals? 1
- A. All are Multinational corporations working in India.
 - B. All have adopted franchising as their growth strategy.
 - C. All have merged with big companies.
 - D. All of the above
15. Which of the following is not an advantage for franchisee of franchising? 1
- A. Product acceptance
 - B. Management expertise
 - C. Saves capital requirements
 - D. Expansion of business

16. Assertion(A): Minors cannot form a Partnership firm.
Reasoning(R): Minors are incompetent to enter into a valid contract. 1
- A. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- B. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)
- C. Assertion (A) is true but Reason (R) is false.
- D. Assertion (A) is false but Reason (R) is true.
17. Assertion (A): Penetrating pricing is a pricing strategy where the price of a product is initially set at a level lower than the eventual market price to attract new customers.
Reason (R): Penetrating pricing results in fast diffusion and adoption. This achieves high market rates quickly. This can take the competitors by surprise, not giving them time to react. 1
- A. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- B. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)
- C. Assertion (A) is true but Reason (R) is false.
- D. Assertion (A) is false but Reason (R) is true.
18. Assertion (A): Franchising allows the venture to expand using little capital.
Reason (R): The franchisor can purchase supplies in large quantities, thus achieving economies of scale. 1
- A. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
- B. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)
- C. Assertion (A) is true but Reason (R) is false.
- D. Assertion (A) is false but Reason (R) is true.

SECTION-B

19. In view of the social responsibility of business, it's always advisable to mention in the business plan, the socio-economic benefits expected to acquire from the proposed investment. Mention four such benefits. 2
20. Mention any four conditions when it is suitable for an entrepreneur to choose a Company form of organisation. 2

OR,

Why is the calculation of BEP quite useful for the entrepreneur?

21. Rohan a budding musician created a lot of musical notes for his upcoming video. He was extremely thrilled to listen to his compositions. He presented his compositions to his friend Victor. The release of musical video of Rohan was getting delayed for a few months due to shortage of cash. Meanwhile Victor used most of the musical compositions of Rohan in his video. Rohan was extremely upset to know that his friend had cheated him and used all his work. What could have Rohan done to save his work?
Identify and explain it. 2
22. Enlist any four main Public relation tools. 2
- OR,
- Differentiate between the two types of sales strategy.

23. How is franchising a better option for external expansion in case of start-ups? (Give any two points) 2

OR,

Give any two disadvantages of franchising to the franchisee.

24. After completing his MCA from Utkal university Satyanarayan decided to start his own Business by taking franchise of Mars Entech Pvt Ltd. a Broadband service provider. But for this he has to enter into a franchise agreement with the company. State the main ingredients of this agreement. 2

SECTION-C

25. Explain any three sources which lead to the emergence of basic ideas. 3

26. Ketan, a graduate has a small factory which manufactures electronic circuit for Television. Recently he has been able to get a huge order of supplying 10,000 units of circuit per month from a popular TV manufacturer. He knew that to meet the orders timely he has to employ more people. In order to do so he decided to formulate Manpower planning. Describe the factors that Karan has to keep in mind while formulating manpower plan. 3

27. Supriyo has prepared a business plan to present it in front of the bank officials. The presentation was in the form of an entertaining slide show with oral narrative. It also had an executive summary and important graphs showing financial trends. 3
(i) What format of Business plan presentation did Supriyo follow?
(ii) State and give meaning of other two formats of business plan.

28. Why is it advisable for a Partnership firm to get registered? 3
OR,

Explain any three characteristics of sole proprietorship.

29. "Big brands make head towards franchising". Why? 3
OR,

Differentiate between Business franchise opportunity and Business format franchise Opportunity.

SECTION-D

30. Explain the steps of creative process. 5

31. "Entrepreneurship does not emerge and grow spontaneously. Rather, it is dependent upon several economic, social, political, legal and other factors. An entrepreneur has to carefully monitor the organization's internal and external environment for detecting early signs of opportunities and threats that may influence its current and future plans". 5
Identify the concept discussed above and justify its importance for an entrepreneur (Write any four points).

OR

"An entrepreneur identifies problems as roadblocks. They understand that they need to bring creative solutions to it. For this he needs to completely understand the problem, identify the target group and find an acceptable solution".
Justify as to how identifying a problem will help an entrepreneur.

32. Explain the various elements of an Operational plan? 5
33. Explain five common types of Intellectual Property Rights. 5
34. Poulomi started a Super Speciality store 'Virasat'. Its products are sourced from hand-picked suppliers. These products are sold under Virasat's own brand. Its promotion strategy is very specific and focuses on targeted group of customers. The purpose of this promotion strategy is to develop the brand awareness among customers through various ways. 5
- (i) Identify the promotion strategy adopted by Virasat.
 - (ii) List the promotional activities that are included in this strategy.
 - (iii) Also state and give meaning of promotion strategies other than the one identified in (i) above.

OR

'MITTIL LTD.' Is a leading company for manufacturing of soft toys for children. The company is in the process of developing a prototype for a talking pillow. 'Talk O Hug', which would enable parents to convey messages to their children when they are away at work. The mechanism is such that the message is recorded in the device in the pillow and the moments the child touches the pillow, the speaker sensors would repeat the message recorded by the parents for their children. Though an innovation for India, imported version of this product are already available in the market. The management wanted to device a price strategy to target the 'switchers' present in the market.

- (i) Identify the pricing strategy that the management is planning to adopt.
- (ii) State the marketing objective of the company behind this pricing decision.
- (iii) State any two advantage and two disadvantage of adopting this pricing policy to 'MITTIL LTD'.

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

CLASS: XII

MAXIMUM MARKS: 70

SUBJECT: GEOGRAPHY (029)

TIME: 3 HOURS

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. Which of the following pair is **NOT** correctly matched

1

Option	SUB FIELDS	SISTER DISCIPLINE
A.	Geography of Leisure	Sociology
B.	Behavioural Geography	Psychology
C.	Medical Geography	Psephology
D.	Cultural Geography	Anthropology

2. Consider the following statements and choose the correct answer with the help of given Option:

1

Statement I: - Access to family planning services is a significant factor in limiting population growth and improving women's health.

Statement II: -People are the actual resources as they make use of the country's other resources and decide its policies. Ultimately a country is known by its people.

Options:

- A. Both the statements are true.
 - B. Only statement I is true.
 - C. Only statement II is true
 - D. Both the statements are wrong.
3. Relate to the most important factor responsible for high density of population found in Katanga-Zambia Plateau located in Africa:

1

- A. Close social ties.
- B. Scenic natural beauty.
- C. Availability of forest resources.
- D. Availability of copper in abundance.

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

Assertion (A): Mega cities of the world continue to attract large number of migrants every year.

Reason (R): Mining and industrial activities generate employment. So, skilled and semi-skilled workers move to these areas and make them densely populated

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

5. To understand why a particular region keeps reporting low or high levels of human development it is important to look at:- 1

- A. The pattern of government expenditure on the social sector.
- B. The political environment of the country
- C. The amount of freedom people have is also important.
- D. All of the above

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

Assertion (A): In India, a large number of women and persons belonging to socially and economically backward groups, drop out of school.

Reason (R): The opportunities available to people is equal irrespective of their gender, race, income and in the Indian case, caste.

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

7. Consider the following and choose the correct answer with the help of given codes: - 1

Name of Industry	Type of Industry
a. Lac industry	1. Animal based
b. Pharmaceutical	2. High Tech
c. Synthetic fiber, plastic	3. Chemical Based
d. Leather industry	4. Forest Based

- A. a-4, b-2, c-3, d-1
- B. a-4, b-3, c-2, d-1
- C. a-1, b-2, c-3, d-4
- D. a-1, b-4, c-3, d-2

8. Which of the following is NOT a characteristic of footloose industries:- 1
- A. They are dependent on specific raw material
 - B. They produce in small quantity and also employ a small labour force.
 - C. The important factor in their location is accessibility by road network.
 - D. All of the above
9. If you are asked to formulate the National youth Policy, what will be the utmost important priority for you:- 1
- A. Empower the youth to achieve their full potential.
 - B. Focus the youth to concentrate in their studies.
 - C. Bring the youth into Active Politics to shape the opinion.
 - D. Focus on the development of Games & Sports among youth.
10. There are two statements marked as Assertion (A) and Reason(R). Mark your answer as per the codes provided below. 1
- Assertion (A):** Social relations among rural people are intimate.
Reason (R) : Rural people are less mobile
- A. Both (A) and (R) are true but (R) is not the correct explanation of (A)
 - B. Both (A) and (R) are true and (R) is the correct explanation of (A)
 - C. Both (A) and (R) are incorrect.
 - D. (A) is correct but (R) is incorrect
11. Consider the following statements and choose the correct answer with the help of given options. 1
- Statement I:** With size, the economic character and social structure of settlements changes and so do its ecology and technology.
- Statement II:** The process of settlement inherently involves grouping of people and apportioning of territory as their resource base.
- A. Only statement I is correct
 - B. Only statement II is correct
 - C. Both the statements are correct, and statement II correctly explains statement I
 - D. Both the statements are true but not related with each other
12. Identify the type of settlement based on the information given below:- 1
- I. In this case, one or more sections of the village society choose or is forced to live a little away from the main cluster or village.
 - II. Generally, the land-owning and dominant community occupies the central part of the main village, whereas people of lower strata of society and menial workers settle on the outer flanks of the village.
 - III. Settlements may result from tendency of clustering in a restricted area of dispersed settlement.

- A. Clustered Settlement
B. Semi Clustered Settlement
C. Hamleted Settlement
D. Dispersed Settlement.
13. Arabica, Robusta and Liberica are the varieties of :- 1
A. Date Palm
B. Coffee
C. Cocoa
D. Rubber
14. Which of the following is NOT taken up in Neeru-Meeru (Water and You) programme (in Andhra Pradesh) and Arvary Pani Sansad (in Alwar, Rajasthan)? 1
A. Constructions of various water-harvesting structures
B. Creating Check Dams
C. Compulsory structure of Roof top Rainwater harvesting in each household.
D. Creating Percolation ponds & Johad

Study the following picture and answer the questions from (15-17)



P



Q

15. Identify the Type of farming marked as P & Q respectively 1
A. P - Subsistence and Q - Commercial
B. P- Advanced and Q-Primitive
C. P- Intensive and Q-Extensive
D. P- Plantation and Q - Milpa
16. Identify the pair (shows the Colonials and Plantation Crop) that does NOT match correctly. 1

COLONIALS

- A. Britishers
B. Spanish and Americans
C. French
D. Europeans

PLANTATION CROP

Tea in India
Coconut in Philippines
Banana in West Africa
Coffee in Brazil

17. Which of the following statement is FALSE in respect to agriculture type marked as 'P' here - 1
- A. Farm yard manure is used to maintain the fertility of the soil.
 - B. Farmers work with the help of family labour leading to intensive use of land.
 - C. The yield per unit area is Low but per labour productivity is High
 - D. Land holdings are very small due to the high density of population.

SECTION-B

Question 18 & 19 are Source based questions.

18. **Read the passage carefully and answer the questions that follows:-** 1+1+1=3

“This stage has high fertility and high mortality because people reproduce more to compensate for the deaths due to epidemics and variable food supply. The population growth is slow and most of the people are engaged in agriculture where large families are an asset. Life expectancy is low, people are mostly illiterate and have low levels of technology. Two hundred years ago all the countries of the world were in this stage.”

- I. Identify the stage of Demographic Transition.
- II. Name a country which belongs to this stage currently.
- III. Examine the relationship of Birth/Death rate and economic development during this phase.

19. **Read the passage related to Agricultural Development in India carefully and answer the questions that follows:-** 1+1+1

...Agricultural production stagnated during late –1950s. To overcome this problem, Intensive Agricultural District Programme (IADP) and Intensive Agricultural Area Programme (IAAP) were launched. But two consecutive droughts during mid-1960s resulted in food crisis in the country. Consequently, food-grains were imported from other countries.

New seed varieties of wheat (Mexico) and rice (Philippines) known as high yielding varieties (HYVs) were available for cultivation by mid-1960s. India took advantage of this and introduced package technology comprising HYVs, along with chemical fertilizers in irrigated areas of Punjab, Haryana, Western Uttar Pradesh, Andhra Pradesh and Gujarat. Assured supply of soil moisture through irrigation was a basic pre-requisite for the success of this new agricultural technology. This strategy of agricultural development paid dividends instantly and increased the food-grains production at very fast rate. This spurt of agricultural growth came to be known as ‘Green Revolution’.

- I. Do you think Green Revolution became successful in all parts of India? Support your view point.
- II. Give reason behind the launch of IAAP & IADP Programme in India.
- III. Give the meaning of Package technology.

SECTION-C

Question numbers 20 to 23 are Short Answer type questions.

20. “The basic goal of development is to create conditions where people can live meaningful lives.” Demonstrate what is a ‘Meaningful life’ according to Dr. Mahbub-ul-Haq? 3

OR

“The Human Poverty index is more revealing than the Human Development Index”. Explain with examples.

21. Explain any three characteristics of Modern Large Scale Manufacturing. 3
22. “Discrimination, in general, and gender discrimination, in particular, is a crime against humanity.”- Evaluate the statement. 3

OR

Mention the period in the demographic history of India, known as the period of Population Explosion. Briefly describe this period.

23. Write any three differences between Protective and Productive irrigation. 3

SECTION-D

Question numbers 24 to 28 are Long Answer Type questions.

24. “Possibilities can be created within the limits...” Based on the statement explain the concept of Neo Determinism. 5
25. Explain the factors / conditions required for Market Gardening and Horticulture solely for the urban Market areas of the World. 5

OR

‘Unlike nomadic herding, commercial livestock rearing is more organized and capital intensive.’ Elaborate.

26. “Each town performs a number of functions.” Classify Indian towns on the basis of dominant or specialized functions and explain any four of such types. 1+4
27. “Most of the agricultural problems in the country are region specific. Yet, there are some problems which are common.” Explain. 5

OR

‘CPRs can be defined as community’s natural resource.’ Explain the statement with examples highlighting the significance of CPR.

28. “In Punjab, Haryana and western Uttar Pradesh, more than 85 per cent of their net sown area is under irrigation.’ Examine the statement mentioning the necessity of irrigation in a country like India. 5

OR

“There is enormous scope for replenishing water through recycling.” Do you agree with the statement? Justify your view point.

SECTION E

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

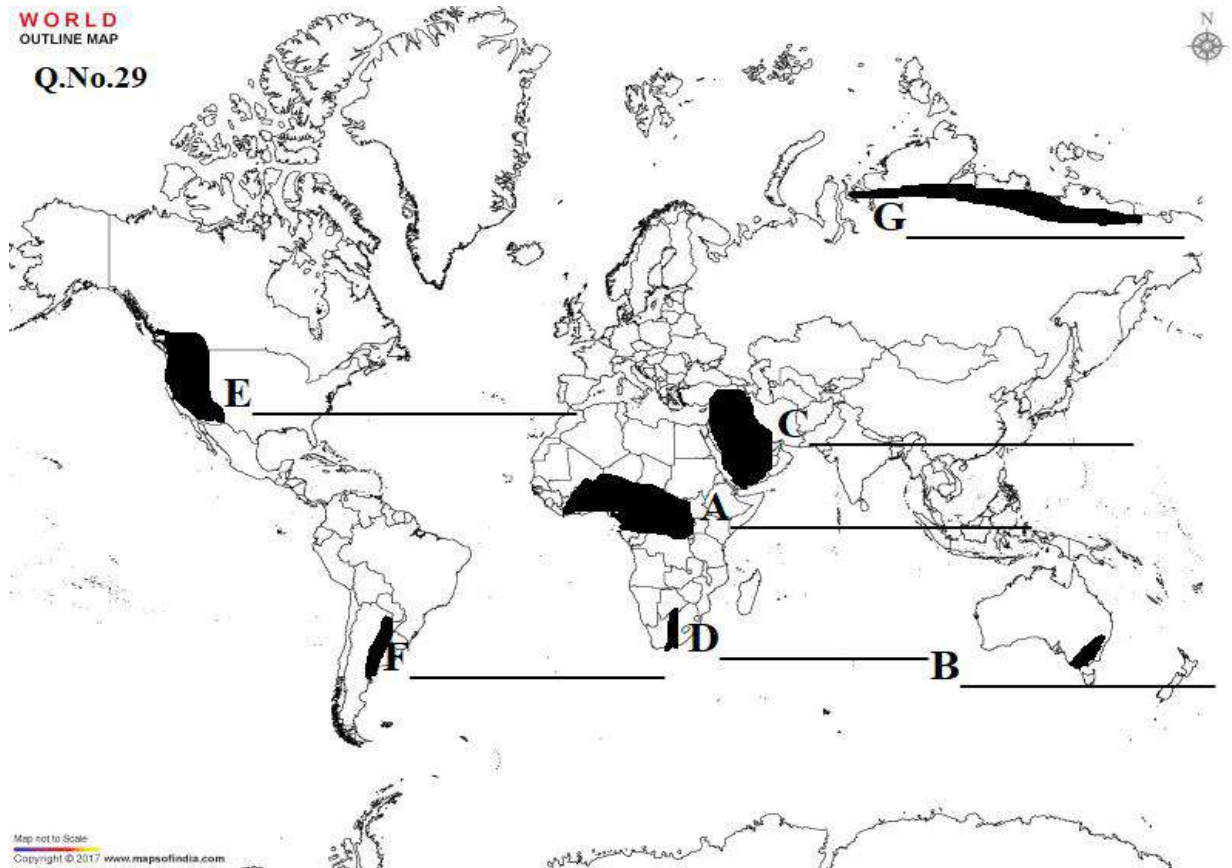
29. On the given political map of the World, seven geographical features have been marked as A, B, C, D, E, F and G. Identify any five with the help of the following information and write their correct names on the lines drawn near each feature. 5
- A. An area of Subsistence Gathering
 - B. An area of Extensive Commercial Grain Farming
 - C. Area where the people practice Nomadic Herding
 - D. An area of Mixed Farming
 - E. Area of Commercial Livestock Rearing
 - F. Grassland where Extensive Agriculture is practiced
 - G. An Area where people practiced Subsistence Gathering and Nomadism
30. Locate and label any five of the following geographical features on the Political Outline map of India with appropriate symbols: 5
- A. State with Highest Density of Population (2011)
 - B. State with Lowest Density of Population (2011)
 - C. Leading Producing state of Coffee
 - D. Leading Producing state of Rice.
 - E. Leading Producing state of Wheat
 - F. A Tea Producing state
 - G. A leading Sugarcane producing state in south India.

***** *****

Sign of Invigilator: -

Name: -

Roll No.-



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

Subject : Health Care
Class : XII

Max. Marks: 60
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 (30MARKS):**
 - 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 (30MARKS):**
 - i. This section contains 18 questions.
 - ii. A candidate has to do 11 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.1 Answer any 4 out of the given 6 questions on Employability Skills (1 x4=4 marks)

- i. The words that express strong emotions are called 1
 - a) Prepositions
 - b) Conjunctions
 - c) Interjections
- ii. What should be the characteristics of an ideal message ? 1
 - a) Clear and concise
 - b) Accurate
 - c)All of the above
- iii. Which one of these are not the element of Communication? 1
 - a) Encoding and Decoding
 - b) Sender and Receiver
 - c) Listening , Speaking , Reading and Writing.
- iv. Which one of these is not a parameter to describe an individual's personality? 1
 - a) Self Confidence
 - b) Openness
 - c) Neuroticism
- v. _____Is all about finding and listing your goals and then planning on how to complete them. 1
 - a) Goal setting
 - b) Goal seeking
 - c) Goal checking
- vi. Listening with_____shows that you respect and value what the other person is saying. 1
 - a) Attention
 - b) Lack of interest
 - c)Disrespect

Q.2 Answer any 5 out of the given 7 questions (1x5= 5 marks)

- i. The full form of LAMA is 1
 - a) Leaving against medical advice
 - b) Legal action method and assessment
 - c) Legal advice measurement and analysis

- ii. Problem Oriented Medial Records does NOT include 1
- Problem Identification
 - Initial note for problem
 - Evaluation
- iii. Documentation of complete assessment of a patient is done in 1
- Assessment Note
 - Admission Note
 - Change of shift note
- iv. When a patient is transferred to another facility either temporarily or permanently , 1
- a _____ is written.
- Admission-note
 - Transfer-note
 - Patient teaching-note
- v. An _____ is part of medical record that documents the patient's 1
- status, reasons why the patient is admitted for inpatient care to a hospital and the initial instructions for the patient's care.
- Discharge-note
 - Admission-note
 - Assessment-note
- vi. Children of 1 to 3 years are called as _____. 1
- Toddler
 - Infant
 - Preschool Child
- vii. _____Is the fulfillment of the special needs and requirements that is 1
- unique to age group of birth to 1 year
- Child care
 - Adult care
 - Elderly care

Q.3 Answer any 6 out of the given 7 questions (1x6= 6 marks)

- i. MRI stands for 1
- Magnetic Resonance Index
 - Magnetic Response Imaging
 - Magnetic Resonance Imaging
- ii. Heart rate of child ranges from 1
- 60-100 bpm
 - 70-120 pm
 - 100-160m bpm
- iii. _____need to be conscious of actions and behaviors that cause older 1
- adults to become dependent on them and need to allow older patients to maintain as much independence as possible.
- Caregivers
 - Doctors
 - Nurses
- iv. Blood pressure of teens range from 1
- 90-110 mm Hg
 - 110 - 135/65 to 85 mm Hg
 - 65-90 mm Hg

- v. Human tissues, organs or fluids, body parts and contaminated animal carcasses are called as _____. 1
- Chemical waste
 - Pathological waste
 - Pharmaceutical waste
- vi. Disposal of _____ wastes is done by autoclaving ,hydro claving ,microwave or incineration. 1
- Microbiological and bio-technological wastes
 - Chemical wastes
 - Anatomical wastes
- vii. Solvents and reagents used for laboratory preparations, disinfectants, and heavy metals contained in medical devices (e.g. mercury in broken thermometers) and batteries are called as _____. 1
- Pathological waste
 - Chemical waste
 - Pharmaceutical waste

Q.4 Answer any 5 out of the given 6 questions (1x5= 5 marks)

- i. _____ color bag is used to store waste sharps including metals . 1
- Yellow
 - Red
 - White
- ii. _____ investigations are done,so as to ensure fitness for anesthesia and surgery. 1
- Preoperative
 - Operative
 - Postoperative
- iii. Glassware and metallic body implants are stored in 1
- Yellow category
 - Red category
 - blue category
- iv. Expired, unused and contaminated drugs and vaccines are called _____. 1
- Cytotoxic waste
 - Pharmaceutical waste
 - Chemical waste
- v. _____ is a room within a hospital, with in which surgical operations are carried out in a sterile environment. 1
- Operating theater
 - Nursing Station
 - Recovery room
- vi. The requirement of _____ varies with the type of surgeries 1
- Routinely being done in a particular operating room.
- Factory equipment
 - Medical equipment
 - Laboratory equipment

Q.5 Answer any 5 out of the given 6 questions (1x5= 5 marks)

- i. The full form of C T Scan is _____. 1
a) Computed Tomography Scan
b) Computer Tomography Scan
c) Computed Topography Scan
- ii Disposal of radioactive waste is done in accordance to the guidelines of 1
a) AIIMS
b) BARC
c) MIC
- iii Formaldehyde used for preserving tissues and organs fall under 1
a) Chemical waste
b) Infected waste
c) Radioactive waste
- iv A _____ is administered on the night before surgery to reduce anxiety 1
and ensure adequate rest.
a) antacid
b) sedative
c) analgesic
- v Choose the incorrect option from the following 1
a) Spectacles or Contact lenses need to be removed in a pre operation setting
b) The patient is asked not to pass urine before operation
c) Any medical disorder present is treated appropriately at the time of surgery.
- vi Outpatients and outsiders are not allowed to enter in 1
a. Operating Theatre
b. Waiting hall
c. Enquiry department

Q 6. Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. Write full form of ECG 1
a) Electrocardiogram
b) Electrocardiography
c) Electroencephalography
- ii TSSU stands for 1
a) Total Sterile supply unit
b) Theatre sterile supply unit
c) Theatre sterile suction unit
- iii The Endoscopy suite will require a procedure room of 1
a) 40 sq meter
b) 20 sq meter
c) 60 sq. mwter
- iv _____ Leads to Physical damage, illness, quality of life, mental and social 1
problems.
a) Stress
b) Time
c) Mind
- v This zone connects the protective zone to that of the aseptic zone 1
a) Sterile
b) Clean
c) Disposal

- vi PACU stands for 1
- Post anesthetic care Units
 - Post operative care unit
 - Pre anasthetic care Units

SECTIONB:SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks) Answer each question in 20–30 words.

- Q. 7 Describe the acronym **RESPECT** in relation to Active listening. (any 4 letters) 2
- Q. 8 Give examples of **any 2** types of sentences from the types given below : 2
- Declarative
 - Interrogative
 - Exclamatory
 - Imperative
- Q. 9 State the **FFM** or Five factor Model of describing an individual's personality. 2
- Q.10 Describe any four parameters of **SMART** model of setting Goals. 2
- Q.11 List down four steps by which you can manage **stress**. 2

Answer any3 out of the given 5 questions in 20–30 words each (2 x3 =6marks)

- Q.12 What confidentiality is important in maintaining Medical record of the patient? 2
- Q.13 Why do elderly people need special care ? 2
- Q.14 Differentiate between Air borne route and oral route of transmission of disease 2
- Q.15 Explain the following: 2
- Sterile zone of OT.
 - Clean and Disposal Zone of OT.
- Q.16 Enumerate the information of label that is tied around the wrist of patient. 2

Answer any 2 out of the given 3 questions in30–50 words each (3x2=6marks)

- Q.17 Enumerate three qualities a GDA should possess while communication with elderly people. 3
- Q.18 How does Biomedical waste management help in environmental protection? . 3
- Q.19 Write down main strategies of pre operative preparation of patient for O.T. 3

Answer any 3 out of the given5 questions in50–80 words each (4x3=12 marks)

- Q.20 Explain about following medical records. 4
- Change of Shift Report
 - Transfer and Discharge Notes
- Q.21 How the GDA can help elderly to take care of Heart related problem? 4
- Q.22 How are the special needs of infant different from toddlers? 4
- Q. 23 How is the Yellow, Red , White and Blue category of storage of Biomedical wastes different from each other . Explain with examples. 4
- Q.24 Explain the zones of Operation theater complex. 4

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

Class: XII

Maximum Marks: 80

Subject: History

Time: 3Hours

General Instructions:

Read the following instructions very carefully and strictly follow them:

- i. This question paper contains 6 pages.
- ii. This question paper contains 34 questions, All questions are compulsory.
- iii. This question paper is divided into five sections - A, B, C, D and E.
- iv. **Section A-** Questions no. 1 to 21 are Multiple choice Questions (MCQ) carrying 1 mark each.
- v. **Section B-** Questions no. 22 to 27 are Short-Answer Type Questions, carrying 3 mark each. Answer to each question should not exceed 60 to 80 words.
- vi. **Section C -** Questions no. 28 to 30 are long answer type Questions, carrying 8 marks each. Answer to each question should not exceed 150 to 200 words.
- vii. **Section D -** Question no. 31 to 33 are source-based Question with three sub- questions of 4 marks each.
- viii. **Section E -** Question no. 34 Map-based Question, carrying 5 marks.

Section –A

(Multiple choice Questions)

- 1) Consider the following statements about the seals of Proto-Shiva. 1
 1. There is a mention of a diety 'Rudra' in ancient religious texts.
 2. Later on Rudra word was used for Shiva.
 3. Rudra is not mentioned as Pashupati in Rigveda.
 4. Depiction of Pashupati does not match the mention of Rudra in Rigveda.Which of the given statements is/are correct?
 - a) 1, 2, 3, 4
 - b) 1,2,3
 - c) 2, 3, 4
 - d) 1, 3, 4
- 2) Prayaga Prashasti was inscribed in..... 1
 - a) Tamil
 - b) Pali
 - c) Prakrit
 - d) Sanskrit
- 3) Arrange the journey of Ibn Battuta in chronological order. 1
 - i) Maldives
 - ii) Sri lanka
 - iii) Malabar
 - iv) China

Codes

- a) i), ii), iii), iv)
 - b) iii), i), ii), iv)
 - c) ii), iii), i) iv)
 - d) iii), ii), iv), i)
- 4) Who among the following believed in nirguna bhakti? 1
 - i) Mirabai
 - ii) Kabir
 - iii) Guru Nanak

Codes

 - a) Only i)
 - b) Only ii)
 - c) Both i) and ii)
 - d) Both ii) and iii)

- 5) Consider the following statements regarding the Virupaksha temple. 1
 (i) The hall in front of the main shrine was built by Krishnadeva Raya to mark his accession.
 (ii) It has a unique shrine designed as a chariot.
 (iii) The principal deity of this temple was generally worshipped in Maharashtra.
 A. only 'i'
 B. 'i' and 'iii'
 C. 'ii' and 'iii'
 D. All of these
- 6) Which one of the following mature Harappan sites is located in Rajasthan? 1
 a) Banawali b) Kalibangan
 c) Rakhigarhi d) Dholavira
- 7) Read the following extract from Adi Parvan and identify being described in it: 1
 The city, bursting like the ocean, packed with hundreds of mansions, displayed with its gateways, arches and turrets like massing clouds the splendour of Great Indra's city.
 A. Patliputra
 B. Hastinapur
 C. Indraprastha
 D. Varanasi
- 8) Which of the following is the oldest stupa in India and was commissioned by the Mauryan King Ashok? 1
 a) Shanti Stupa b) Amaravati Stupa
 c) Sanchi Stupa d) Nagarjuna Konda Stupa
- 9) Find out which one of the following is not correctly matched: 1
 a) Amara-Nayaka System – Vijayanagara Empire
 b) Harihara and Bukka – Founded Vijayanagara
 c) Mahanavami Dibba – King's palace
 d) Hazara Rama Temple – New Delhi
- 10) Name the Buddhist text that provides an insight into women's social and spiritual experiences. 1
 a) Therigatha b) Vinaya Pitaka
 c) Uttaradhyayana Sutta d) Abhidhamma Pitaka
- 11) Which of the following statements is incorrect? 1
 a) According to Ibn Battuta, the nut of the coconut tree looked similar to a man's head.
 b) According to Bernier, the Indian peasantry was exploited by the landlords.
 c) Abdur Razzaq is perhaps the only historian who provided a detailed account of the working of the imperial Karkhanas or workshops.
 d) Ibn Battuta gave a detailed account of slavery in India.
- 12) The Bhagavat Gita is..... 1
 a) Didactic b) Dramatic
 c) Narrative d) Political

- 13) Two statements are given in the question below as Assertion (A) and Reasoning (R). Read the statements and choose the appropriate option. 1

Assertion (A): The Harrappan culture is named after the first site where this culture was discovered.

Reason (R): Alexander Cunningham announced the discovery of this culture to the world in 1924.

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.
- 14) Which of the following statement is correct regarding Mahnavami Dibba? 1
- a) Mahnavami Dibba was part of ‘The King’s Palace Complex’.
 - b) Mahnavami Dibba was a part of Sacred Centre.
 - c) Mahnavami Dibba was a ‘Counseling Hall’.
 - d) Mahnavami Dibba was a ‘Discussion Hall’.
- 15) Find out the correct chronological order of ‘The Chishti Silsila’ from the 1
following
- i) Shaikh Nizammuddin Auliya
 - ii) Shaikh Fariduddin Ganj- shaker
 - iii) Shaikh Nasiruddin Chirag-I Delhi
 - iv) ShaikhMuinuddin Sijzi

Codes

- 16) Identify the following image and write its name



- a) Terracotta sculpture depicting a scene from the Mahabharat.
 - b) Terracotta sculpture depicting a scene from Ramayana
 - c) Terracotta sculpture depicting tribal life
 - d) Terracotta sculpture of Gupta period.
- 17) Which of the following statements is/are correct? 1
- i) Francois Bernier dedicated his writings to Louis XIV, the king of France.
 - ii) Many of Bernier's other works were written in the form of letters to his beloved daughter.
 - iii) Bernier often traveled with the army.

a) Both i) and ii)
c) i), ii) and iii)

b) Both i) and iii)
d) Both ii) and iii)

- ## Codes

- ## Codes

- Assertion (A):** The childhood name of Buddha was Siddhartha.

Reason (R): He was the son of the chief of Shakyas clan.

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.

- 21) Which of the following is true regarding 'Rigveda'? 1
- a) Rigveda was compiled between 2500 BCE and 2000 CE
 - b) Rigveda consists of hymns in praise of deities like Agni, Indra and Soma.
 - c) Hymns of Rigveda were not chanted when sacrifices were performed.
 - d) Rigveda is a part of Upanishads.

Section B

(Short-Answer Type Questions)

- 22) Even though the inscriptions are a major source to reconstruct the history of ancient India, they have certain limitations. What are they?

State any three reasons used by historians to reconstruct the history of Mauryan Empire.

- 23) Write any three views on the decline of the Harappan Civilisation. 3

- 24) How did Ibn Battuta explain the system of communication in India? 3
OR
Discuss about the Ibn Battuta's description of India economy.
- 25) "Historians find it particularly a difficult task to understand a text as complex as the Mahabharata" Justify this statement. 3
- 26) 'Mohenjodaro was a planned urban centre' Give evidences to justify the statement. 3
- 27) Identify the strategies evolved by Brahmanas to enforce the norms of varna order during c. 600 BCE to 600 CE. 3
OR
How did Brahmins develop a sharper social divide? Give two examples?
- Section C**
(Long answer type Questions)
- 28) Identify the rituals and practices associated with the Mahanavami Dibba, a structure in the Royal Centre of Vijayanagara Empire. 8
OR
Outline the distinctive features of the Virupaksha temple and the Vitthala temple in the Royal Centre of Vijayanagara Empire.
- 29) Describe the factors that led to the growth of Puranic Hinduism in India during the 6th century B.C. 3+5=8
OR
Explain the distinctive aspects of Sanchi Stupa.
- 30) Identify the relationship of the Alvas and Nayanars of Tamil Nadu with the state from eight to the 18th century. 8
OR
Identify the relationship between the Sufis and the state from the 8 to 18th century.

Section: D
(Source Based Questions)

- 31) Read the following source carefully and answer the questions that follow.
A Demon
This is an excerpt from a poem by Karaikkal Ammaiyar in which she described herself The Female Pey (demoness) with... bulging veins, protruding eyes, white teeth and shrunken stomach, red haired and jutting teeth lengthy shins extending till the ankles, shouts and wails while wandering in the forest. This is the forest of Alankatu, which is the home of our father (Shiva) who dances... with his matted hair thrown in all eight directions, and with cool limbs.
- i) Who was Karaikkal Ammaiyar? 1
- ii) How did the author describes herself in the poem? 1
- iii) What did author try to convey through the poem? 2

- 32) Read the following source carefully and answer the questions that follow.

The Importance of Boundaries

The Manusmriti is one of the best-known legal texts of early India, written in Sanskrit and compiled between 2nd century BCE and 2nd century CE. This is what the text advises the king to do.

Seeing that in the world controversies constantly arise due to the ignorance of boundaries, he should have concealed boundary markers buried- stones, bones, cow's hair, chaff, pebbles and sand. he should also have other similar substances that would not decay in the soil buried as hidden markers at the intersection of boundaries.

- i) Why did the controversies of boundaries arise? 1
- ii) Suggest the ways to solve the boundary problems. 1
- iii) Explain with an example any such problem being faced by India today. 2

- 33) Read the following source carefully and answer the questions that follow.

The system of Varna

This is Al-Biruni's account of the system of varnas: The highest caste are the Brahmana, of whom the books of the Hindus tell us that they were created from the head of Brahman. And as the Brahman is only another name for the force called nature, and the head is the highest part of the ... body, the Brahmana are the choice part of the whole genus. Therefore the Hindus consider them as the very best of mankind. The next caste are the Kshatriya, who were created, as they say, from the shoulders and hands of Brahman. Their degree is not much below that of the Brahmana. After them follow the Vaishya, who were created from the thigh of Brahman. The Shudra, who were created from his feet . . . Between the latter two classes there is no very great distance. Much, however, as these classes differ from each other, they live together in the same towns and villages, mixed together in the same houses and lodgings.

- a) Explain Al- Biruni's account of the system of varnas 2
- b) Do you consider this type of division justified? Explain with reasons 1
- c) How was the system not quite rigid in the real life? 1

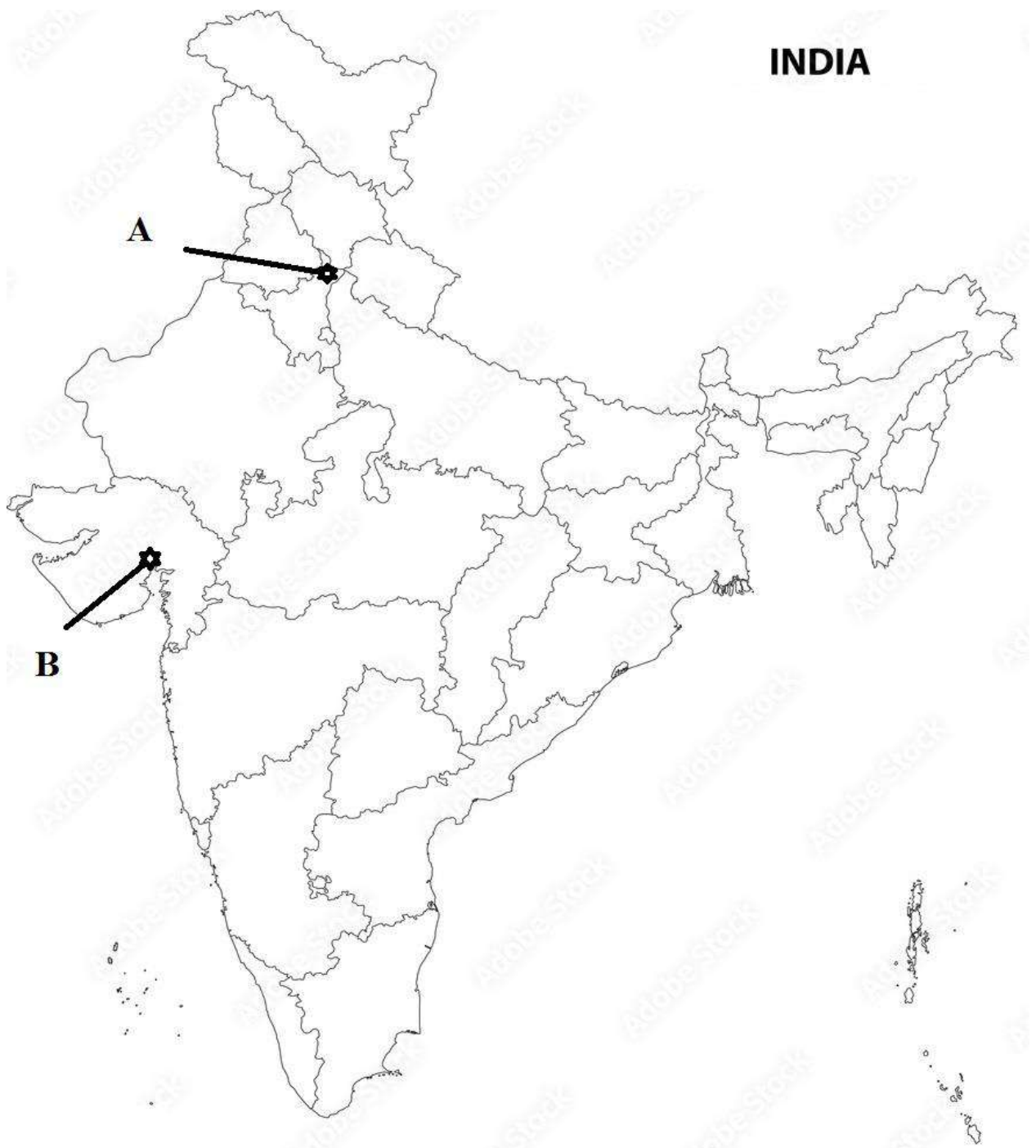
Section: E

(Map Based Questions)

- 34) A) Locate and label the following in the outline map of India. 1x5=5
- i) A city which was the capital of the Mauryan Empire.
 - ii) Sanchi
 - iii) Vijayanagara

B) On the given political outline map of India, two major Indus Valley sites have been marked as A and B respectively. Identify and write their name.

Name: _____ Class: _____ Section _____ Roll No: _____
34)



D.A.V. INSTITUTIONS, WEST BENGAL ZONE

HALF YEARLYM EXAMINATION

SESSION 2023-2024

Class: XII

Subject: Library and Information Science

Maximum Marks: 60

Time: 3 hours

SECTION – A MCQ & ONE WORD ANSWERS (EMPLOYABILITY SKILLS) [ATTEMPT ANY 4]

1×4=4

- 1 People with _____ frequently try to gain more attention by being overly dramatic.
(a) Dependent personality disorder
(b) Avoidant personality disorder
(c) Borderline personality disorder
(d) Histrionic personality disorder
- 2 A _____ is one that has only one subject and one predicate or has only one finite verb.
(a) Complex sentence
(b) Simple sentence
(c) Active sentence
(d) Passive sentence
- 3 Which among the following is not an element of communication?
(a) Knowledge (b) Message (c) Channel (d) Feedback
- 4 Identify the type of sentence “Come with us right now”
(a) Interrogative (b) Declarative (c) Imperative (d) Exclamatory
- 5 The acronym SMART in goal setting stands for
(a) Selective, Measurable, Action-Oriented, Realistic, Timely
(b) Specific, Measurable, Action-Oriented, Realistic, Timely
(c) Specific, Meaningful, Action-Oriented, Realistic, Timely
(d) Specific, Measurable, Activity-Oriented, Realistic, Timely
- 6 What should be done to help someone overcome personality disorder?
(a) Talking friendly with the individual
(b) Engage the individual with a new hobby
(c) Help in building self confidence
(d) All the above

SECTION – B SHORT ANSWER TYPE QUESTIONS (EMPLOYABILITY SKILLS) [ATTEMPT ANY 3]

2×3=6

- 7 Define active voice and passive voice with suitable examples
- 8 Define MINTS in capitalisation
- 9 What do you mean by self awareness
- 10 What is neuroticism?
- 11 Differentiate between Intrinsic motivation and Extrinsic motivation

SECTION – C MCQ (SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 26] 1×26=26

- 12 The concept of collection development came into existence in the year
(a) 1990s (b) 1980s (c) 1970s (d) 1960s

- 13 What are the two most important factors listed in the functions of collection development
(a) Acquisition & Weeding Policies
(b) Resource sharing & User analysis
(c) Acquisition & Selection Policies
(d) Selection & Resource sharing policies
- 14 Which among these is an example of trade bibliography?
(a) Indian National Bibliography
(b) Book in Prints
(c) PubMed
(d) Ulrich's Periodical Directory
- 15 Which General Financial Rules provides the guidelines regarding the stock verification of library books?
(a) Rule 190 (b) Rule 192 (c) Rule 194 (d) Rule 196
- 16 In which approach to stock verification process, the books are verified based on shelf list?
(a) Call number approach (b) Book number approach (c) Accession number approach (d) ICT approach
- 17 Which organization publishes the Indian National Bibliography ?
(a) British Library (b) NDLI
(c) National Library of India (d) IIT, Kharagpur
- 18 A process that enables a new employee to accommodate in the new job environment is termed as?
(a) Training & development (b) Career planning
(c) Performance Appraisal (d) Orientation
- 19 Which process is used for assessing the potential of an individual employee for growth and advancement in the organization.?
(a) Career Planning (b) Labour Relations
(c) Compensation (d) Orientation
- 20 Which of the following provides scientific base for fixing wages and salaries of various types of jobs and employees?
(a) Job Evaluation (b) Job Description
(c) Job Analysis (d) Employee Classification
- 21 The Delhi Public Library comes under the ministry of
(a) Ministry of Finance (b) Ministry of Culture
(c) Ministry of Education (d) Ministry of Public Affairs
- 22 Which among the following is not one of the five functions of human resource management?
(a) Human Resource Planning (b) Human Resource Welfare
(c) Employee Maintenance (d) Staffing
- 23 Which state considers the house tax or property tax as the basic for library cess/tax?
(a) West Bengal (b) Odisha (c) Gujarat (d) Andhra Pradesh
- 24 Name the agency which looks after the financial needs of the special libraries in India
(a) RRRLF (b) CSIR
(c) National Knowledge Commission (d) NDLI
- 25 A method of financial estimation implies that all items of expenditure are accounted for, while preparing financial estimates for the library is called as
(a) Proportional method (b) Per Capita Method
(c) Method of Details (d) Method of Capital

- 26 Which library has the responsibility of preserving the intellectual heritage and the relevant information sources of a country?
 (a) State Central Library (b) Central Reference Library
 (c) Central Special Library (d) National Library
- 27 A planned acquisition system is necessary to:
 (a) Achieve the objectives of the library.
 (b) Acquire best available resources.
 (c) Satisfy the needs of the users.
 (d) All of the above.
- 28 Find the odd one out:
 (a) Selection (b) Ordering (c) Digitizing (d) Receiving
- 29 Name the committee that assists the library staff to select the best reading material for the library
 (a) Library Committee (b) Expert Committee
 (c) Selection Committee (d) Local Committee
- 30 Ulrich's Periodical Directory is an example of:
 (a) National Bibliography (b) Subject Bibliography
 (c) Trade Bibliography (d) Bibliographic Database
- 31 A register in which all details of the acquired materials/holdings are recorded in a library is called a:
 (a) Issue Register (b) Items Register
 (c) Accession Register (d) Register of library holdings
- 32 Which mode of acquisition is more suitable for acquiring digital materials?
 (a) Purchase Method (b) Receiving as Gifts
 (c) Exchange Program (d) Online Method
- 33 _____ of a library is known as the guide map of the library resources for the users
 (a) Shelf List (b) Catalogue (c) Accession Register (d) Rack Label
- 34 "15th Century" denotes which fundamental category in Colon Classification?
 (a) Personality (b) Space (c) Energy (d) Time
- 35 In Colon Classification the connecting symbol is colon (:) is used for
 (a) Personality (b) Space (c) Energy (d) Time
- 36 The call number of a document consists of :
 (a) Class Number + Book Number + Collection Number
 (b) Class Number + Subject Number + Collection Number
 (c) Document Number + Book Number + Collection Number
 (d) Class Number + Book Number + Author Number
- 37 Dr. Ranganathan has prescribed a procedure involving _____ successive steps for translating the title of the document:
 (a) Nine (b) Five (c) Ten (d) Seven
- 38 According to Dr. Ranganathan, if a concept cannot easily fit into the other four categories then it is probably a :
 (a) Energy Facet (b) Time Facet (c) Space Facet (d) Personality Facet
- 39 Which classification scheme is of Indian origin ?
 (a) LCC (b) DDC (c) UDC (d) CC

SECTION – D SHORT ANSWERTYPE QUESTIONS - 1
(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 3]

2×3=6

- 40 What do you mean by collection development?
- 41 What do you mean by job analysis? State 2 advantages.

- 42 What is budgeting?
- 43 Define circulation system in libraries. State it's two functions.
- 44 Discuss the Matter facet of colon classification with examples.

SECTION – E SHORT ANSWERTYPE QUESTIONS - 2
(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 2] (*Answer in 120 words*)

3×2=6

- 45 What is the importance of job evaluation? Mention its limitations. (*any four*)
- 46 Differentiate between per capita method and proportional method of financial estimation.
- 47 Explain the concept of PMEST with a suitable example.

SECTION – F DESCRIPTIVE/LONG ANSWERTYPE QUESTIONS
(SUBJECT SPECIFIC SKILLS) [ATTEMPT ANY 3] (*Answer in 150 words*)

4×3=12

- 48 List the selection criteria for documentary sources. (*any 8*)
- 49 Explain the four types of book/document binding
- 50 What are the biological factors responsible for damaging printed library materials?
- 51 What do you mean by a library call number? Discuss it's parts.
- 52 Write the points to be considered for budget making

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

CLASS: XII
SUBJECT: MATHEMATICS

MAXIMUM MARKS: 80
TIME: 3 HOURS

General Instructions:

Read the following instructions very carefully and strictly follow them:

- i) This question paper contains 38 questions and 04 printed pages. All questions are compulsory.
- ii) This question paper is divided into five sections- A,B,C,D and E.
- iii) In section A, Questions no. 1 to 18 are multiple choice questions (MCQs) and questions number 19 and 20 are Assertion-reason based questions of 1 mark each.
- iv) In section B, Questions no. 21 to 25 are short answer-I (SA-I) type questions, carrying 2 marks each.
- v) In section C, Questions no. 26 to 31 are short answer-II (SA-II) type questions, carrying 3 marks each.
- vi) In section D, Questions no. 32 to 35 are long answer (LA) type questions, carrying 5 marks each.
- vii) In section E, Questions no. 36 to 38 are case study based questions, carrying 4 marks each.
- viii) There is no overall choice. However, an internal choice has been provided in 2 questions in Section B, 3 questions in Section C, 2 questions in Section D and 3 questions in Section E.
- ix) Use of calculators is not allowed.

SECTION A

This section comprises multiple choice questions (MCQs) of 1mark each.

01. If the set A contains 5 elements and the set B contains 6 elements , then the number of one-one and onto mappings from A to B is 1
A)720 B)120 C)0 D)11
02. The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = (x-1)(x-2)(x-3)$ is 1
A)one-one but not onto. B)onto but not one-one.
C)both one-one and onto. D)neither one-one nor onto.
03. The value of $\sin^{-1}(\cos \frac{33\pi}{5})$ is 1
A) $\frac{3\pi}{5}$ B) $\frac{-\pi}{10}$ C) $\frac{\pi}{10}$ D) $\frac{7\pi}{5}$
04. The domain of $\cos^{-1}(x^2 - 4)$ is 1
A)[3,5] B)[-1,1] C) $[-\sqrt{5}, -\sqrt{3}] \cup [\sqrt{5}, \sqrt{3}]$ D) $[-\sqrt{5}, -\sqrt{3}] \cap [\sqrt{5}, \sqrt{3}]$
05. If $\cos^{-1} x > \sin^{-1} x$, then 1
A) $\frac{1}{\sqrt{2}} < x \leq 1$ B) $0 \leq x < \frac{1}{\sqrt{2}}$ C) $-1 \leq x < \frac{1}{\sqrt{2}}$ D) $x > 0$
06. The value of the expression $\sin\{\cot^{-1}(\cos(\tan^{-1}1))\}$ is 1
A) 0 B) 1 C) $\frac{1}{\sqrt{3}}$ D) $\sqrt{\frac{2}{3}}$
07. If A is 3×4 matrix and B is a matrix such that $A^T B$ and BA^T are both defined. Then , The order of B is - 1
A) 3×4 B) 3×3 C) 4×4 D) 4×3
08. The sum of the co-factors of all elements of $\begin{vmatrix} 1 & -2 \\ 4 & 3 \end{vmatrix}$. 1
A) 2 B) -2 C)-4 D) 4
09. Total number of possible matrices of order 3×3 with each entry 3 or 0 is 1
A) 9 B) 27 C) 81 D) 512
10. If $y = \sqrt{\sin x + y}$, then $\frac{dy}{dx}$ equals 1
A) $\frac{\cos x}{2y-1}$ B) $\frac{\cos x}{1-2y}$ C) $\frac{\sin x}{2y-1}$ D) $\frac{\sin x}{1-2y}$
11. If $x = at^2$, $y = 2at$, then $\frac{d^2y}{dx^2} =$ 1
A) $\frac{-1}{t^2}$ B) $\frac{1}{2at^3}$ C) $\frac{-1}{t^3}$ D) $\frac{-1}{2at^3}$

12. The derivative of $\cos^{-1}(2x^2 - 1)$ w.r.t. $\cos^{-1} x$ is 1
 A) 2 B) $\frac{-1}{2\sqrt{1-x^2}}$ C) $\frac{2}{x}$ D) $1-x^2$.
13. The value of "a" for which the function, 1
 $f(x) = \begin{cases} 5x - 4, & \text{if } 0 < x \leq 1 \\ 4x^2 + 3ax, & \text{if } 1 < x < 2 \end{cases}$ is continuous at every point of its domain is
 A) $\frac{13}{3}$ B) 1 C) 0 D) -1
14. Find the interval in which the function $f(x) = 2x^3 - 9x^2 + 12x + 15$ is increasing 1
 A) $(-\infty, 1)$ B) $(2, \infty)$ C) $(1, 2)$ D) $(-\infty, 1) \cup (2, \infty)$
15. If $\frac{d\{f(x)\}}{dx} = 4x^3 - \frac{3}{x^4}$ such that $f(2) = 0$. Then, $f(x)$ is 1
 A) $x^4 + \frac{1}{x^3} - \frac{129}{8}$ B) $x^3 + \frac{1}{x^4} + \frac{129}{8}$ C) $x^4 + \frac{1}{x^3} + \frac{129}{8}$ D) $x^3 + \frac{1}{x^4} - \frac{129}{8}$
16. $\int e^x (\cos x - \sin x) dx$ is equal to 1
 A) $-e^x \cos x + C$ B) $e^x \sin x + C$ C) $e^x \cos x + C$ D) $-e^x \sin x + C$
17. $\int \frac{1}{\sin^2 x \cos^2 x} dx$ is equal to 1
 A) $\tan x + \cot x + C$ B) $\tan x - \cot x + C$ C) $\tan x \cot x + C$ D) $\tan x + \cot 2x + C$
18. $\int \frac{(\ln x)^2}{x} dx$ is equal to 1
 A) $(\ln x)^3 + C$ B) $\frac{1}{3} \ln x^3 + C$ C) $\frac{1}{3} (\ln x)^3 + C$ D) $3(\ln x)^3 + C$

Questions number 19 and 20 are Assertion and Reason based questions carrying 1 marks each. Two statements are given, one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer from the codes (A), (B), (C) and (D) as given below.

- (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of the Assertion (A).
 (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of the Assertion (A).
 (C) Assertion (A) is true and Reason (R) is false.
 (D) Assertion (A) is false and Reason (R) is true.
19. Assertion (A):- The function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = x^3 + 1$ is a bijection. 1
 Reason (R):- Every polynomial function is a bijection.
20. Assertion (A):- If A is a square matrix of order 3 such that $|A| = 5$, then $|\text{adj} A|$ is equal to 25. 1
 Reason (R):- If A is non-singular square matrix of order n, then $|\text{adj} A| = |A|^{n-1}$.

SECTION B

This section comprises short answer-I (SA-I) type questions of 2 marks each.

21. How many equivalence relation on the set $\{1, 2, 3\}$ containing (1, 2) and (2, 1) are there in all? Justify your answer. 2
22. Which is greater, $\tan 1$ or $\tan^{-1} 1$? 2
23. If $A = \begin{bmatrix} 2 & \lambda & -3 \\ 0 & 2 & 5 \\ 1 & 1 & 3 \end{bmatrix}$, then find the value of λ for which A^{-1} exists. 2
24. If $x = \theta \sin \theta$, $y = \theta \cos \theta$, find $\frac{dy}{dx}$ at $\theta = \frac{\pi}{4}$. 2
 OR
 If $y = f(e^{\sin^{-1} 2x})$, find $\frac{dy}{dx}$.
25. Find $\int \frac{dx}{1 + \sin x}$. 2

OR

Evaluate: $\int \frac{dx}{1 + e^x}$

SECTION C

This section comprises short answer-II (SA-II) type questions of 3 marks each.

26. Show that the function f in $A = \mathbb{R} - \{\frac{2}{3}\}$ defined as $f(x) = \frac{4x+3}{6x-4}$ is one one and onto. 3
27. Differentiate $\log(1 + x^2)$ w.r.t $\tan^{-1} x$. 3

28. For a matrix $A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$, find x and y so that $A^2 + xI = yA$. 3

OR

Using determinants, find the area of the triangle whose vertices are $(-2, 4)$, $(2, -6)$ and $(5, 4)$.
Are the given points collinear?

29. Find the value of k , so that the function f is continuous at $x = \frac{\pi}{2}$. 3

$$f(x) = \begin{cases} \frac{k \cos x}{\pi - 2x}, & \text{if } x \neq \frac{\pi}{2} \\ 5, & \text{if } x = \frac{\pi}{2} \end{cases}$$

30. Differentiate $\sin^{-1}\left(\frac{1}{\sqrt{1+x^2}}\right)$ with respect to x . 3

OR

Show that the function f defined by $f(x) = \begin{cases} 3x - 2, & \text{if } 0 < x \leq 1 \\ 2x^2 - x, & \text{if } 1 < x \leq 2 \\ 5x - 4, & \text{if } x > 2 \end{cases}$ is not differentiable

at $x=2$.

31. Evaluate $\int \frac{\sin x + \cos x}{\sqrt{1 + \sin 2x}} dx$. 3

OR

Find $\int \tan^{-1} x \, dx$.

SECTION D

This section comprises long answer (LA) type questions of 5 marks each.

32. If $A = \begin{bmatrix} 1 & -1 & 1 \\ 2 & 1 & -3 \\ 1 & 1 & 1 \end{bmatrix}$, find A^{-1} 5

and hence solve the system of linear equations by matrix method.

$$x + 2y + z = 4, \quad -x + y + z = 0, \quad x - 3y + z = 2.$$

OR

If $A^{-1} = \begin{bmatrix} 3 & -1 & 1 \\ -15 & 6 & -5 \\ 5 & -2 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$, find $(AB)^{-1}$.

33. Differentiate $x^{\sin x} + (\sin x)^{\cos x}$ w.r.t. x . 5

OR

If $y = (\sqrt{x+1} + \sqrt{x-1})^m$, then prove that $(x^2 - 1)y_2 + xy_1 = \frac{1}{4}m^2y$.

34. Show that the volume of the greatest cylinder which can be inscribed in a cone of height h and semi-vertical angle α is $\frac{4}{27}\pi h^3 \tan^2 \alpha$. 5

Also show that height of the cylinder is $\frac{h}{3}$.

35. Evaluate $\int \frac{\sqrt{x^2+1}}{x^4} \{\log(x^2 + 1) - 2\log x\} dx$ 5

SECTION E

This section comprises 3 case study based questions of 4 marks each.

Case Study-1

36. Amit, Biraj and Chirag were given the task of creating a square matrix of order 2. Below are the matrices created by them. A, B, C are the matrices created by Amit, Biraj and Chirag respectively. $A = \begin{bmatrix} 1 & 2 \\ -1 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 4 & 0 \\ 1 & 5 \end{bmatrix}$, $C = \begin{bmatrix} 2 & 0 \\ 1 & -2 \end{bmatrix}$

(i) Find the sum of the matrices A, B and C

(ii) Evaluate $(A^T)^T$.

(iii) Find the matrix $AC - BC$

OR

(iii) Find the matrix of $(a+b)B$. If $a = 4$ and $b = -2$.

Case Study-2

37. Sonam wants to prepare a handmade gift box for her friend's birthday at home. For making lower part of box, she takes a square piece of cardboard of side 20 cm.



If x cm be the length of each side of the square cardboard which is to be cut off from corners of the square piece of side 20 cm then answer the following questions.

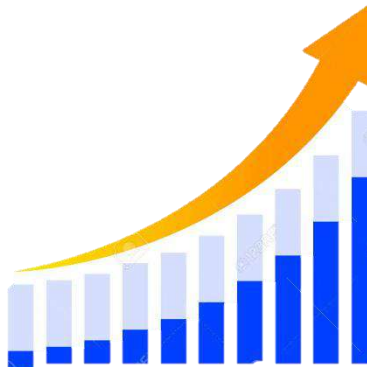
- (i) What is the Volume(V) of the open box formed by folding up the cutting corner in term of x ? 1
- (ii) Find the values of x for which $\frac{dV}{dx} = 0$. 1
- (iii) Sonam is interested in maximizing the volume of the box. So, what should be the side of the square to be cut off so that the volume of the box is maximum? 2

OR

- (iii) What is the maximum value of the volume?

Case Study-3

38. Read the following text and answer the following questions on the basis of the same.
 $P(x) = -5x^2 + 125x + 37500$ is the total profit function of a company, where x is the production of the company.



- (i) What will be the production when profit is maximum? 2
- (ii) What will be the production of the company when the profit is Rs. 38,250? 2

D.A.V INSTITUTIONS, WEST BENGAL ZONE

HALF YEARY EXAMINATION

SESSION: 2023- 2024

Class: XII

Maximum Marks: 30

Subject: Painting

Time: 2 Hours

General 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)
-

Section – A

1. The painting “Kabir and Raidas” has which kind of colour scheme ? 1
 - a) Black and White
 - b) Monochrome
 - c) Flashy
 - d) Mixed
2. The colours used in illustration during the Mughal period were made from 1
 - a) Minerals
 - b) Chemicals
 - c) Soil
 - d) Flowers
3. Assertion(A): Our Mentor guides us in understanding the profundity of the Supreme God , as seen in "the painting “Hazrat Nizamuddin Auliya and Amir Khusrau”. Reason (R): By obeying our Guru, we can build a peaceful and prosperous society 1
 - a) Both A and R are true, and R is the correct explanation of A
 - b) Both A and R are true, but R is not the correct explanation of A
 - c) A is true but R is false
 - d) A is false and R is True
4. Mughal miniature paintings was painted either with _____or Tempera. 1
 - a) Wash
 - b) Fresco
 - c) Chiaroscuro
 - d) Gouache
5. Which is the greatest and earliest manuscript in the Mughal period ? 1
 - a) Babur Nama
 - b) Taimur Nama
 - c) Dastan-i-Amir-Hamza
 - d) Shah Nama
6. What is symbolized by the ‘White colour’ used in the Indian National Flag ? 1
 - a) Courage and Sacrifice
 - b) Faith and Chivalry
 - c) A particular religion
 - d) Truth and Peace

7. Assertion (A): The Mughal school of miniature painting used decorative borders to enhance the beauty of the paintings.
Reason (R): Artists of Mughal courts used floral motifs and gold to make their painting look royal and full of grandeur. 1
- a) Both A and R are true, and R is the correct explanation of A
b) Both A and R are true, but R is not the correct explanation of A
c) A is true but R is false
d) A is false and R is True
8. In which sub-school are the famous miniature painting “Chand Bibi Playing Polo” made ? 1
- a) Ahmadnagar
b) Hyderabad
c) Golkonda
d) Bijapur

Section – B

9. Write short note on the subject matter of Mughal miniature painting “Krishna Lifting Mount Govardhana” which is included in your course of study. 2

Or

Mention any two salient features of the Mughal school of miniature painting.

10. Explain the compositional arrangement of the Deccan miniature painting “Chand Bibi Playing Polo” which is included in your course of study. 2

Or

Mention any two salient features of the Deccan school of miniature painting.

11. Explain the design and meaning of colour schemes of the Final (1947) Indian National Flag. 2

Or

Which message is expressed by the painter of the painting ‘Kabir and Raidas’ which is included in your course of study.

12. Appreciate the painting “Marriage Procession of Dara Shikoh” based on the following points: ½ X 4

- a) Name of the artist
b) Medium of the painting
c) Name of the school
d) Circa

13. Evaluate the aesthetic-grandeur of the famous miniature painting “Falcon on a Bird-Rest” which is included in your course of study. 2

Section- C

14. Write an essay on the origin and development of Mughal school of miniature painting. 6

Or

Write an essay on the origin and development of Deccan school of miniature painting.

15. Describe the compositional arrangement and subject matter on the Deccan Miniature Painting “Hazrat Nizamuddin Auliya and Amir Khusrau”. 6

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

Class: XII
Subject: Physical Education

Maximum Marks: 70
Time: 3 Hours

General Instructions:

1. The question paper consists of 5 sections and 37 Questions.
2. Section A consists of question 1-18 carrying 1 mark each and is multiple choice questions. All questions are compulsory.
3. Sections B consist of questions 19-24 carrying 2 marks each and are very short answer types and should not exceed 60-90 words. **Attempt any 5.**
4. Sections C consist of Question 25-30 carrying 3 marks each and are short answer types and should not exceed 100-150 words. **Attempt any 5.**
5. Sections D consist of Question 31-33 carrying 4 marks each and are case studies. **There is internal choice available.**
6. Section E consists of Question 34-37 carrying 5 marks each and are short answer types and should not exceed 200-300 words. **Attempt any 3.**

(SECTION - A)

1. Identify the Asana:



1

- | | | | |
|--|-------------------|------|------|
| a) Matsyasana | b) Suptavajrasana | | |
| c) Paschimottasana | d) Mandukasana | | |
| 2. How many rounds will be played if the numbers of teams are 29 in the knockout fixture? | | 1 | |
| a) 5 | b) 6 | c) 7 | d) 3 |
| 3. Gomukhasana and Padmasana are performed to rectify which postural deformity? | | | 1 |
| a) Flat foot | | | |
| b) Scoliosis | | | |
| c) Knock knees | | | |
| d) Bow legs | | | |
| 4. The Paralympic Anthem was composed by: | | | 1 |
| a) Spyridon Samaras | b) Thierry Darnis | | |
| c) Brande Aristotle | d) Andrew Parsons | | |
| 5. Given below are the statement, one of which is labelled as a Assertion (A) and the other is labelled as Reason(R). | | | |
| Assertion (A): Majorities of babies are born with flat feet but as they grow or get involved in physical activities the arch in the foot develops. | | | 1 |
| Reason(R) : Foot or ankle injury due to obesity, wearing improper shoes and carrying heavy weight for long time are causes of flat foot. | | | |

- a) Both Assertion (A) and Reason (R) are true and Reason(R) is the correct explanation of Assertion (A).
b) Both Assertion (A) and Reason (R) are true but Reason(R) is not the correct explanation of Assertion (A).
c) Assertion (A) is true, but Reason (R) is false.
d) Assertion (A) is false but Reason(R) is true.
6. Weakening of bones due to loss of bone density and improper bone formation is:
- | | | |
|-----------------|---------------------|---|
| a) Amenorrhea | b) Anorexia nervosa | 1 |
| c) Osteoporosis | d) Lordosis | 1 |
7. Match the following:
- | | |
|----------------|--------------|
| 1. Vitamin B12 | A) Thiamine |
| 2. Vitamin B3 | B) Biotin |
| 3. Vitamin B7 | C) Cobalamin |
| 4. Vitamin B1 | D) Niacin |
- A B C D
- | | |
|------------|---|
| a) 4 3 1 2 | |
| b) 2 3 4 1 | |
| c) 1 2 3 4 | 1 |
| d) 3 4 2 1 | |
8. If the menstrual period go more than 35 days, it is termed as
- A. Metrorrhagia
B. Oligomenorrhoea
C. Polymenorrhoea
D. Menopause
9. Match the following:
- | | |
|-----------------|----------------------|
| A. Diabetes | 1. Sarala Matsyasana |
| B. Asthama | 2. Halasana |
| C. Hypertension | 3. Supta Vajrasana |
| D. Obesity | 4. UttanMandukasana |
- (a) A-3, B-4, C-1, D-2
(b) A-2, B-1, C-4, D-3
(c) A-4, B-2, C-1, D-3
(d) A-1, B-3, C-2, D-4
10. Frequent menstruation is known as:
- | | |
|--------------------|---|
| a) Metrorrhagia | |
| b) Oligomenorrhoea | 1 |
| c) Polymenorrhoea | |
| d) Menorrhagia | |
11. Katichakrasana is a,
- | | |
|--------------------|---|
| a) Standing asana | |
| b) Sitting asana | 1 |
| c) Lying asana | |
| d) Balancing asana | |
12. The hand shapes that are formed in Deaflympics logo represent:
- | | |
|-----------------------------------|---|
| a) 'ok', 'good', and 'great'. | |
| b) 'well', 'good' and 'great'. | |
| c) 'ok', 'brilliant' and 'great'. | 1 |
| d) 'ok', 'good' and 'carry on'. | |

13. Given below are the statements: one of which is labelled as Assertion (A) and the other is labelled as Reason(R).

Assertion (A): People with intellectual disabilities can learn, enjoy and benefit from participation in sports with proper help and encouragement.

Reason(R): Consistent training helps these people develop their sports skills and provides incentives for personal growth.

In the context of above two statements which one of the following is correct? 1

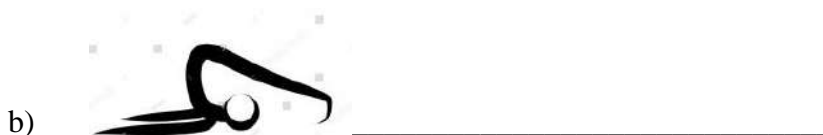
- a) Both Assertion (A) and Reason (R) are true and Reason(R) is the correct explanation of Assertion (A).
b) Both Assertion (A) and Reason (R) are true but Reason(R) is not the correct explanation of Assertion (A).
c) Assertion (A) is true, but Reason (R) is false.
d) Assertion (A) is false but Reason(R) is true.
14. Sodium is needed for the proper functioning of the 1
a. Thyroid function b. Nervous system
c. Digestive system d. Metabolism system
15. is helpful in the clotting of blood, prevention of haemorrhage and excessive bleeding in wounds. 1
a. Vitamin K b. Vitamin E c. Vitamin A d. Vitamin C
16. Which of the following asana should be performed for curing obesity? 1
a) Ardha Matsyendrasana b) Mandukasana
c) Uttanpadasana d) Gomukhasana
17. Which of the following is a macro mineral? 1
a) Iodine b) Iron c) Copper d) Calcium
18. Which statement is not true about protein? 1
a. Protein forms new tissues
b. Protein regulates the balance of water and acids
c. Protein helps in production of hormones
d. Protein makes antibodies.

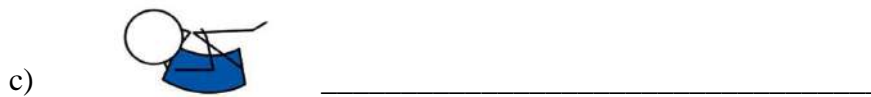
(SECTION – B)

19. List four benefits of inclusive education. 2
20. Write a short note on Vitamin E. 2
21. Identify the below given asanas and write the names:



2





22. Define two types of disorder related to menstrual dysfunction? 2
23. Write any four disadvantages of Round Robin tournament. 2
24. Explain any two non-nutritive components of diet. 2

(SECTION- C)

25. Discuss the things we keep in our mind when we prepare the physical activity plan for CWSN. 3
26. Discuss ..“Protein is the building blocks of life”. 3
27. Draw a fixture of 6 teams on league basis following the cyclic method. 3
28. Write the name of any four types of pranayama. Write any two contraindications of Surya Bhedhana Pranayama. 1+2
29. Discuss any three pitfalls of dieting? 3
30. What do you mean by intramurals? Mention the significance of intramurals for students. 3

(SECTION- D)

31. Read the following passage and answer the following question:
Mr.Shyam aged 53 years, is recommended to practice the given asana as a therapeutic measure. He is a clerk in a private bank and spends most of the time sitting at one place. He developed symptoms like frequent urge of urination, tiredness, excessive weight gain anxiety and gets easily irritated.



i) From the shape of the body is the given pose it can be identified as:

- a) Gomukhasan
- b) Bhujangasana
- c) Tadasana
- d) Vajrasana

4

ii) Mr.Shyam is diagnosed with:

- a) only diabetes
- b) both diabetes and hypertension
- c) only hypertension
- d) obesity

iii) This asana should be avoided by people suffering from:

- a) migraine
- b) peptic ulcer
- c) high blood pressure
- d) hyper acidity

iv) Which gland is associated with Diabetes?

- a) Endocrine glands
- b) Pituitary
- c) Pancreas
- d) Hypothalamus

OR.

A balanced diet refers to the intake of food constituting all the necessary nutrients Ram shares his knowledge of 'food and nutrition' with neighbours while visiting his grandparents in a village. Ram notices that few people living in that village are suffering with goiter and severe anaemia.

1. Minerals are placed undernutrients category on basis of required quantity.

- (a) Micro (b) macro (c) roughage (d) Nonnutritive

2. Goiter is caused due to deficiency of

- (a) Calcium (b) iodine (c) selenium (d) iron

3. Low level of this mineral will lead to anaemia

- (a) Copper (b) sodium (c) iron (d) calcium

4. Fresh vegetables and fruits are rich sources of

- Vitamins (b) minerals (c) Both (a) & (b) (d) fats

32. Identify the symbol given below and answer the questions that follow.



I) Which games are being referred to in the above symbol?

- a) Paralympics
- b) Olympics
- c) Deaflympics
- d) Special Olympics

ii) These games are held every ____ years.

- a) 4
- b) 5
- c) 6
- d) 7

iii) These games were first held in 1924 in ____.

- a) Nuremberg, German
- b) Milan, Italy
- c) Helsinki, Finland
- d) Paris, France

iv) The centre of the logo of these games represents

- a) The iris of the eye.
- b) The cornea of the eye.
- c) The pupil of the eye.
- d) The eyeball of the eye.

33. Below given is the detail of different type of Vitamins required for the body:



i) The vitamins and minerals are collectively known as ___ food:

- a) body building
- b) protective
- c) energy giving
- d) facilitating

4

ii) Fat soluble vitamins are:

- a) vitamin A and D
- b) vitamin A and K
- c) Vitamin E and D
- d) vitamin A, D, E and K

iii) Water soluble vitamins are:

- a) Vitamin A, C and D
- b) Vitamin A, D, E and K
- c) Vitamin B and C.
- d) Vitamin C, D and E.

iv) Which of the following statement is false about Vitamin C?

- a) It helps in healing the wounds.
- b) It is also known as ascorbic acid.
- c) It is found in meat, milk products and seafood.
- d) It is highly effective antioxidant.

(SECTION- E)

34. Diabetes and obesity is most common life style diseases in modern era. Write procedure, Benefits and contraindication for any one asana for each disease.

5

35. What is knockout tournament? Draw a fixture of 25 teams on the basis of knockout tournament with all steps involved.

5

36. Write about deformities of spinal curvature and explain its causes and corrective measures.

5

37. Write a short note on Paralympics. (Give all the details)

5

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

Class: XII
Subject: Physics

Maximum Marks: 70
Time: 3 Hours

General instructions:

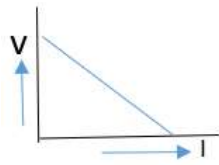
1. There are 33 questions.
 2. All questions are compulsory.
 3. This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
 4. Section A contains sixteen questions, twelve MCQ and four Assertion Reasoning based of 1 mark each, Section B contains five questions of two marks each, Section C contains seven questions of three marks each, Section D contains three long answer questions of five marks each, Section E contains two case study-based questions of four 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, all three questions in Section D and one question in each CBQ in Section E. You must attempt only one of the choices in such questions.
-

SECTION-A

- | | |
|---|---|
| 1. If the distance between the plates of parallel plate capacitor becomes one –fourth and the dielectric constant is doubled, then the capacity will become | 1 |
| (a) 16 times | |
| (b) 8 times | |
| (c) 4 times | |
| (d) remains the same | |
| 2. A soap bubble is given positive charge, then its radius will | 1 |
| (a) remains unchanged | |
| (b) increase | |
| (c) decrease | |
| (d) fluctuate | |
| 3. Three copper wires have lengths and cross-sectional areas as (l, A) ; $(2l, A/2)$ and $(l/3, 2A)$. Resistance is maximum in | 1 |
| (a) wire of cross-sectional area A | |
| (b) wire of cross-sectional area $A/2$ | |
| (c) wire of cross-sectional area $2A$ | |
| (d) same in all the three cases | |
| 4. Kirchhoff's first and second laws of electrical circuits are consequences of | 1 |
| (a) Conservation of energy only | |
| (b) Conservation of energy and electric charge respectively | |
| (c) Conservation of electric charge only | |
| (d) Conservation of electric charge and energy respectively | |

5. A student measures the terminal potential difference (V) of a cell of emf E and internal resistance r as a function of the current (I) flowing through it. The slope and intercept of the graph between V and I, then respectively equals

1

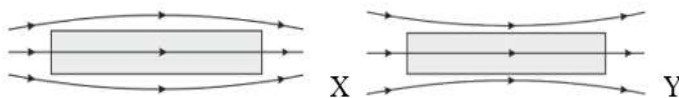


- (a) -r and E
(b) r and -E
(c) -E and r
(d) E and -r
6. As the temperature increases, the electrical resistance
- (a) increases for both conductors and semiconductors
(b) decreases for both conductors and semiconductors
(c) increases for conductors but decreases for semiconductors
(d) decreases for conductors but increases for semiconductors
7. Two circular coils of diameter 15cm and 30 cm have total number of turns 1000 and 2000 respectively. The ratio of magnetic field inductions at the centre of coils when connected in series is
- (a) 3:2
(b) 1:1
(c) 2:1
(d) 2:3

1

1

8.



1

Identify the materials X and Y.

- a) X is diamagnetic & Y is paramagnetic
b) Y is diamagnetic & X is paramagnetic
c) X is ferromagnetic & Y paramagnetic
d) X is ferromagnetic & Y is diamagnetic
9. The amount of magnetic flux linked with a rectangular coil of size 6cm × 8cm placed at right angle to a magnetic field of 0.5T is
- (a) 2.4×10^{-3} Wb
(b) 2.9×10^3 Wb
(c) 1.5×10^{-3} Wb
(d) 1.7×10^4 Wb
10. The magnetic flux through a circuit of resistance R changes by an amount $\Delta\phi$ in a time Δt . Then the total quantity of electric charge Q that passes any point in the circuit during the time Δt is represented by:
- a) $Q = \frac{\Delta\phi}{\Delta t}$
b) $Q = \frac{1}{R} \frac{\Delta\phi}{\Delta t}$
c) $Q = R \frac{\Delta\phi}{\Delta t}$
d) $Q = \frac{\Delta\phi}{R}$

1

1

11. In a coil, when current changes from 12A to 4A in time 0.1 sec, induced emf produces 3.28 volt then the self-inductance of the coil is 1
- (a) 4H
(b) 0.04H
(c) 5H
(d) 3H

12. Two coils are placed closed to each other. The mutual inductance of the pair of coils depends upon 1
- (a) the rate at which currents are changing in the two coils.
(b) relative position and orientation of two coils.
(c) the material of the wires of the coils.
(d) the currents in the two coils.

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

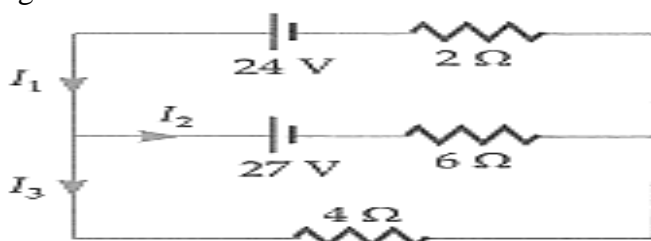
- a) If both Assertion and Reason are true and Reason is correct explanation of Assertion.
b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
c) If Assertion is true but Reason is false.
d) If both Assertion and Reason are false.
13. **Assertion:** On going away from a point charge or a small electric dipole, the electric field decreases at the same rate in both cases. 1
Reason: Electric field is inversely proportional to the square of the distance from in both the cases.
14. **Assertion:** An electrical bulb starts glowing instantly as it is switched on. 1
Reason: Drift speed of electrons in a metallic wire is very large.
15. **Assertion:** A charge whether stationary or in motion produces a magnetic field around it. 1
Reason: A current carrying conductor produces only electric field.
16. **Assertion:** An induced current has a direction such that the magnetic field due to the current opposes the change in the magnetic flux that induces the current. 1
Reason: Above statement is in accordance with the conservation of energy.

SECTION – B

17. (a) An electric dipole is held in a uniform electric field. Obtain the expression for the torque experienced by the electric dipole of dipole moment **p**. 1
(b) What is the work done in moving a test charge **q** through a distance of 1 cm along the equatorial axis of an electric dipole. 1

OR

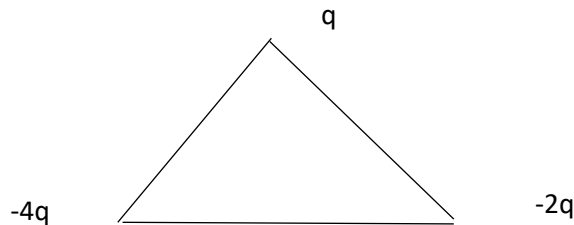
- (a) No work is done in moving a test charge over an equipotential surface. Why?
(b) Explain with reason, ‘Electrostatic field lines do not form close loops’.
18. Using Kirchhoff's laws, determine the currents I_1 , I_2 and I_3 for the network shown in figure. 2



19. Define the term 'mobility' of charge carriers. How does the mobility of a charge carrier vary with temperature for conductors? 2
20. What is the maximum torque on a rectangular coil of area $5 \text{ cm} \times 12 \text{ cm}$ of 600 turns, when carrying a current of 10^{-5} A in a magnetic field of 0.10 T ? 2
21. A 0.5 m long solenoid of 10 turns/cm has area of cross-section 1 cm^2 . Calculate the voltage induced across its ends if the current in the solenoid is changed from 1 A to 2 A in 0.1 sec . 2

SECTION – C

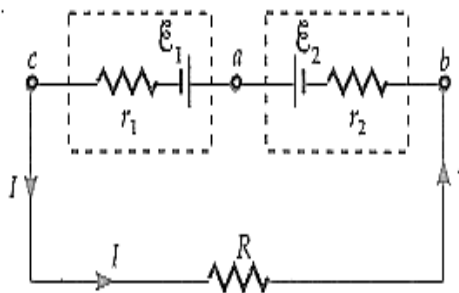
22. (a) Three-point charges q , $-4q$ and $2q$ are placed at the vertices of an equilateral triangle ABC of side ' l ' as shown in the figure. Obtain the expression for the magnitude of the resultant electric force on the charge q . 3



23. (a) N identical capacitors are joined in parallel and charged to a common potential V . The battery is disconnected. Now the capacitors are joined in series. What is change in potential energy and potential difference in the new combination? 3
- (b) Write two applications of electrostatic shielding phenomena.
24. A potential difference V is applied across the ends of copper wire of length l and diameter D . What is the effect on drift velocity of electrons if
- (a) potential difference V is halved?
- (b) length l is doubled?
- (c) diameter D is halved?

Justify your answers.

25. In Figure, \mathcal{E}_1 and \mathcal{E}_2 are respectively 2.0 V and 4.0 V and the resistances r_1 , r_2 and R are respectively 1.0Ω , 2.0Ω and 5.0Ω . Calculate the current in the circuit. Also, calculate: 3



- i. potential difference between the points b and a
- ii. potential difference between a and c.

OR

Using Kirchhoff's Rules obtain the condition for balanced Wheatstone Bridge. When is the bridge most sensitive?

26. (a) Briefly explain how a galvanometer is converted into a voltmeter. 3
- (b) A voltmeter of a certain range is constructed by connecting a resistance of 980 ohms in series with a galvanometer. When the resistance of 470 ohms is connected in series, the range gets halved. Find the resistance of the galvanometer.

27. Two identical coils P and Q each of radius R are lying in perpendicular planes such that they have a common centre. Find the magnitude and direction of magnetic field at the common centre of the two coils, if they carry currents equals to I and $\sqrt{3} I$ respectively. 3
28. (a) Write Faraday's law of electromagnetic induction. 3
 (b) A conducting rod of length l with one end pivoted, is rotated with uniform angular speed ω in a vertical plane, normal to a magnetic field B. Derive an expression for the emf induced in this rod.

OR

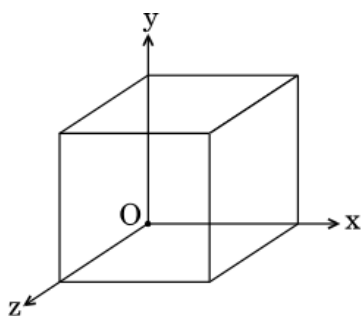
- (a) Plot a graph showing variation of induced emf with the rate of change of current flowing through a coil of inductance 'L'.
 (b) Two identical coils, one of copper and another of aluminium are rotated with the same speed in an external magnetic field. In which of the two coils will the induced current will be more? Why?

SECTION – D

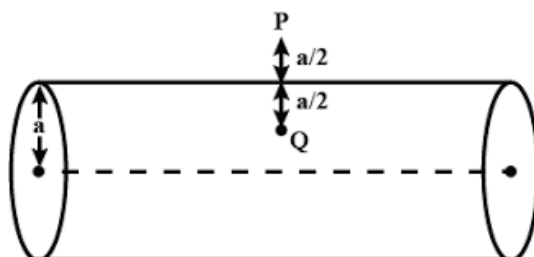
29. (a) State Gauss's Law in electrostatics. 5
 (b) A thin conducting shell of radius R and charge Q spread uniformly over its surface. Using Gauss's law derive an expression for an electric field at a point inside, outside and on the surface of the shell.
 (c) Draw a graph of electric field E (r) with distance r from the centre of the shell.

OR

- (a) Two - point charges q_1 and q_2 are kept r distance apart in a uniform external electric field \vec{E} . Find the amount of work done in assembling this system of charges.
 (b) A cube of side 20 cm is kept in a region as shown in the figure. An electric field exists in the region such that the potential at a point is given by $V = 10x + 5$, where V is in volt and x is in m. Find
 i. the electric field \vec{E} , and
 ii. the total electric flux through the cube.

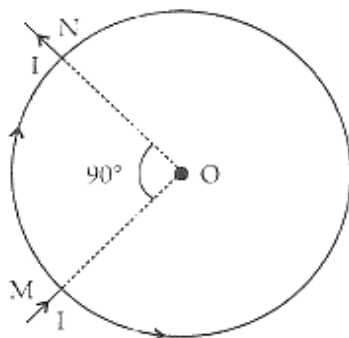


30. (a) Derive an expression for the force per unit length between two long straight parallel conductors carrying current in the same direction. 5
 (b) Hence define S.I unit of current.
 (c) A straight thick wire of uniform cross section of radius a carrying a steady current I. Calculate the ratio of magnetic field at a point a/2 above the surface of the wire to that at a point a/2 below its surface.



OR

- (a) Use Biot - Savart's law to derive the expression for the magnetic field due to a circular coil of radius R having N turns at a point on the axis at a distance x from its centre.
- (b) Draw the magnetic field lines due to this coil,
- (c) A current I enters a uniform circular loop of radius ' R ' at point M and flows out at N as shown in the figure. Obtain the net magnetic field at the centre of the loop.



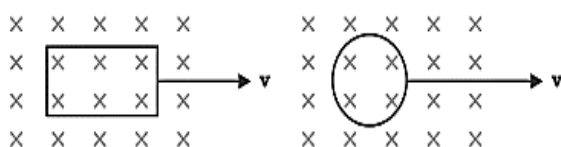
31.

- (a) Two concentric circular coils one of small radius r_1 and the other of large radius r_2 such that $r_1 \ll r_2$ are placed co-axially with centres coinciding. Obtain the mutual inductance of the arrangement. Consider I_2 current flows through the coil of radius r_2 .

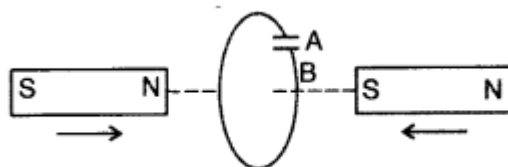
- (b) A closely wound solenoid of 2000 turns and area of cross section $1.6 \times 10^{-4} \text{ m}^2$, carrying a current of 4.0 A, is suspended through its centre allowing it to turn in a horizontal plane. What is the magnetic moment associated with the solenoid?

OR

- (a) A square loop of side 10 cm and resistance 0.50 ohm is placed vertically in the east - west plane. A uniform magnetic field of 0.10 T is set up across the plane in north-east direction. The magnetic field is decreased to zero in 0.70 s at a steady rate. Determine the magnitudes of induced e.m.f. and current during this time interval.
- (b) A rectangular loop and a circular loop are moving out of a uniform magnetic field region (Fig.) to a field - free region with a constant velocity \mathbf{v} . In which loop do you expect the induced emf to be constant during the passage out of the field region? The field is normal to the loops.



- (c) Predict the polarity of the capacitor when the two magnets are quickly moved in the directions marked by arrows.

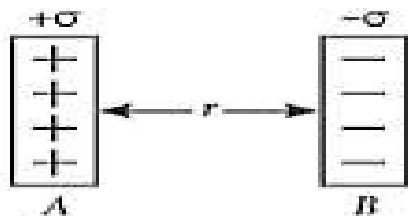


SECTION - E

32. Read the source given below and answer any four out of the following questions:

Surface charge density is defined as charge per unit surface area of surface charge distribution. i.e., $\sigma = \frac{dq}{dS}$. Two large, thin metal plates are parallel and close to each other. On their inner faces, the plates have surface charge densities of opposite signs having

magnitude of $17.0 \times 10^{-22} \text{ Cm}^{-2}$ as shown. The intensity of the electric field at any point in between the plates, $E = \frac{\sigma}{\epsilon_0}$, where ϵ_0 = permittivity of free space.



(i) E in the outer region of the first plate is

- a. $17 \times 10^{-22} \text{ N/C}$
- b. $1.5 \times 10^{-25} \text{ N/C}$
- c. $1.9 \times 10^{-10} \text{ N/C}$
- d. zero

(ii) E in the outer region of the second plate is

- a. $17 \times 10^{-22} \text{ N/C}$
- b. $1.5 \times 10^{-15} \text{ N/C}$
- c. $1.9 \times 10^{-10} \text{ N/C}$
- d. zero

(iii) E between the plates is

- a. $17 \times 10^{-22} \text{ N/C}$
- b. $1.5 \times 10^{-15} \text{ N/C}$
- c. $1.9 \times 10^{-10} \text{ N/C}$
- d. zero

(iv) The ratio of E from right side of B at distances 2 cm and 4 cm, respectively is

- a. 1 : 2
- b. 2 : 1
- c. 1 : 1
- d. $1 : \sqrt{2}$

OR

In order to estimate the electric field due to a thin finite plane metal plate, the Gaussian surface considered is

- a. spherical
- b. cylindrical
- c. straight line
- d. none of these

33. Read the case study carefully and answer the questions that follow:

4

A point charge q (moving with a velocity v and located at r at a given time t) in the presence of both the electric field E and magnetic field B . The force on an electric charge q due to both of them can be written as $F = q [E + v \times B] = F_{el} + F_{mag}$. It is called the 'Lorentz force'.

i) In a certain region of space, electric field E and magnetic field B are perpendicular to each other and an electron enters in the region perpendicular to both and moves undeflected. The velocity of the electron is

- a. $\frac{|E|}{|B|}$
- b. $\frac{|B|}{|E|}$
- c. $\vec{E} \times \vec{B}$
- d. $\vec{E} \cdot \vec{B}$

ii) A proton and an alpha particle moving with the same velocity enter a uniform magnetic field, acting normal to the plane of their motion. The ratio of the radii of the circular paths described by the proton and alpha particle is

- a. 1:2
- b. 1:4
- c. 1:16
- d. 4:1

iii) If an electron of charge $-e$ is moving along $+X$ direction and magnetic field is along $+Z$ direction, then the magnetic force acting on the electron will be along

- a. $+X$ axis
- b. $-X$ axis
- c. $-Y$ axis
- d. $+Y$ axis

iv). A charged particle moves through a magnetic field perpendicular to its direction. Then

- a. Kinetic energy changes but the momentum is constant
- b. The momentum changes but the kinetic energy is constant
- c. Both momentum and kinetic energy of the particle are not constant
- d. Both momentum and kinetic energy of the particle are constant.

OR

A particle moves in a region having a uniform magnetic field and a parallel, uniform electric field. At some instant, the velocity of the particle is perpendicular to the field direction. The path of the particle will be

- a. A straight line
- b. A circle
- c. A helix with uniform pitch
- d. A helix with non-uniform pitch

D.A.V. INSTITUTIONS, WEST BENGAL ZONE

HALF YEARLY EXAMINATION

Session: 2023– 2024

Class : XII

Maximum Marks : 80

Subject : Political Science

Time : 3 Hours

GENERAL 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 each.
 8. There is an internal choice in 6 marks questions.
-

SECTION – A (12 Marks)

1. **The “two-nation theory” propounded that _____** 1
 - a) There were two types of government in India
 - b) There were two different cultures in India
 - c) India consisted of two ‘people’, Hindus and Muslims
 - d) India should be divided into two regions
2. **Which of the statement/s about the princely states is/are correct:** 1
 - I. Some of the princely states clearly wanted to become a part of the Indian Union.
 - II. The ruler of Junagarh had decided not to be an independent state and be part of independent India.
 - III. Princely states covered two-third of the land area of the British Indian Empire.
 - IV. The Indian government was ready to give autonomy to some of the regions.

Code:

 - A. I and II only
 - B. I and III only
 - C. I and IV only
 - D. II and IV only
3. **What was the Marshall Plan?** 1
 - A. A plan to invade the Soviet Union
 - B. A plan to revive Europe’s economy with massive financial aid from the US
 - C. A plan to establish a new collective security structure under NATO
 - D. A plan to channel aid to the Soviet Union
4. **Arrange the following in chronological order:** 1
 - I. Soviet invasion of Afghanistan
 - II. Fall of the Berlin Wall
 - III. Disintegration of the Soviet Union
 - IV. Russian Revolution.

Code:

- A. I, III, II, IV
B. IV, I, II, III
C. IV, II, I, III
D. II, III, IV, I
5. **Who led the largely non-violent pro-democracy movement in Nepal in April 2006?** 1
A. The monarchy
B. The Maoists
C. The military
D. The Seven Party Alliance (SPA)
6. **Match the Column I with Column II.** 1

COLUMN I	COLUMN II
(1) Amnesty-International	i. had served as Prime Minister of Portugal and the UN High Commissioner for Refugees.
(2) António Guterres	ii. the former UN Under-Secretary- General for Communications and Public Information.
(3) Human Rights Watch	iii. It brings out independent reports on the violation of human rights from different parts of the world.
(4) Shashi Tharoor	iv. Watch draws the global media's attention to human rights abuses.

Option:

- A. 1- iii, 2- ii, 3-i, 4 - iv
B. 1- iii, 2- iv, 3-i, 4 - ii
C. 1- iii, 2-i, 3-iv, 4 - ii
D. 1- iv, 2- iii, 3-ii, 4 - i
7. **Assertion (A):** The shock therapy administered in the 1990s brought ruin to the economies and disaster upon the people of the entire region. Large state-controlled industrial complex almost collapsed. 1
Reason (R): The restructuring was carried out through market forces and not by government-directed industrial policies.
A. Both Assertion (A) and Reason (R) are true, and R is the correct explanation of A.
B. Both Assertion (A) and Reason (R) are true, but R is not the correct explanation of A.
C. Assertion (A) is true but Reason (R) is false.
D. Assertion (A) is false but Reason (R) is true.
8. **Assertion (A):** The Second Five Year Plan stressed on heavy industries. It was drafted by a team of economists and planners under the leadership of P.C. Mahalanobis. 1
Reason (R): However the Second Five Year Plan was responsible for the development of the agricultural sector as it had enough funding to support it.
A. Both Assertion (A) and Reason (R) are true and R is the correct explanation of A.
B. Both Assertion (A) and Reason (R) are true but R is not the correct explanation of A.
C. Assertion (A) is true but Reason (R) is false.
D. Assertion (A) is false but Reason (R) is true.

9. Which one of the following statements about the ethnic conflict in Sri Lanka is **FALSE**? 1
- Politics in Sri Lanka openly favoured the Sinhalas.
 - Interests of the Tamils were neglected.
 - Liberation Tigers of Tamil Eelam were supported by the SAARC countries.
 - There was no political and social equality in Sri Lanka.
10. Consider the following statements about India's nuclear policy and choose the correct one. 1
- India's nuclear programme was started in the late 1940s under the guidance of Homi J. Bhabha.
 - Nehru was against the nuclear weapons and pleaded the superpowers for comprehensive nuclear disarmament.
 - India was in support of the NPT when it was adopted and the plan of its indefinite extension caused India to change her stand.
- Codes:**
- I and II only
 - Only I
 - Only III
 - II and III only
11. According to K.N. Raj, why should India 'hasten slowly' for the first two decades? 1
- To ensure that democracy is not endangered
 - To focus on rapid industrialization
 - To increase foreign aid and investment
 - To address the issue of unemployment
12. State True or False: 1
- One-Party dominance is rooted in the absence of strong alternative political parties.
 - One-party dominance occurs because of weak public opinion.
 - One-party dominance reflects the presence of democratic ideals in a country.
 - One-party dominance is linked to a nation's colonial past.
- Code:**
- True, False, True, False.
 - True, True, False, False.
 - True, False, False, True.
 - False, True, True, False
- SECTION – B (12 Marks)**
13. Mention the two steps taken by China to improve its economy post 1970s. 2
14. "Free India was born in very difficult circumstances". Justify the statement with two suitable arguments. 2
15. a. Differentiate between plan and non-plan budget. 2
b. Name the institution which replaced the Planning Commission.
16. Mention any two objectives of SAARC. 2
17. State any two functions of the World Bank. 2
18. Enumerate any two principles of Nehru's Foreign Policy. 2

SECTION – C (20 Marks)

- 19 If the Soviet Union had not disintegrated and the world had remained bipolar, how would that situation have affected world politics? 4
- 20 What led to the evolution of the European Union from an economic union to an increasingly political one? 4
- 21 “For a long time, Congress Party had been a social and ideological coalition”. Justify the statement. 4
- 22 Evaluate the impact of the Chinese invasion of 1962 indenting India’s image, both at home and abroad. 4

OR

- 23 Explain the role played by India in maintaining Afro-Asian Unity. 4
- Describe the two basic reforms of the UN to strengthen it on which almost everyone agreed that were necessary after the Cold War.

OR

List any four steps suggested by the member states of the UN in 2005 in order to make the United Nations more relevant in the changing context.

SECTION – D (12 Marks)

- 24 **Read the passage given below and answer the questions that follow:** 1+1+1+1=4
- ASEAN was and still remains principally an economic association. While the ASEAN region as a whole is a much smaller economy compared to the US the EU, and Japan, its economy is growing much faster than all these. This accounts for the growth in its influence both in the region and beyond. The objectives of the ASEAN Economic Community are to create a common market and production base within ASEAN States and to aid social and economic development in the region. The Economic Community would also like to improve the existing ASEAN Dispute Settlement Mechanism to resolve economic disputes. ASEAN has focused on creating a Free Trade Area (FTA) for investment, labour, and services. The US and China have already moved fast to negotiate FTAs with ASEAN.

Questions:

A. The ASEAN Way—

- a) Reflects the lifestyle of Asian members
- b) The defence policy followed by the ASEAN members
- c) A form of communication among ASEAN members which is technical and scientific.
- d) A form of interaction among ASEAN members that is informal and co-operative.

B. What is the primary objective of ASEAN?

- a) To promote regional peace and stability
- b) To accelerate economic growth
- c) To promote cultural development
- d) To develop the rule of law

C. What are the three pillars of the ASEAN Community?

- a) ASEAN Economic Community, ASEAN Political Community and ASEAN Environmental Community
- b) ASEAN Security Community, ASEAN Economic Community and ASEAN Socio-Cultural Community
- c) ASEAN Security Community, ASEAN Economic Community and ASEAN Political Community
- d) ASEAN Socio-Cultural Community, ASEAN Environmental Community and ASEAN Political Community

D. What is the ASEAN Regional Forum (ARF)?

- a) An organization that carries out coordination of security and foreign policy
- b) An agreement that upholds peace, neutrality, cooperation, non-interference, and respect for national differences and sovereign rights
- c) An agreement that aims to establish an ASEAN Community comprising three pillars
- d) An organization that aims to accelerate economic growth and social progress and cultural development.

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 alphabet in the map as per the following format. 1+1+1+1=4

- (i) V.V. Giri belonged to this state.
- (ii) The state which faced the most acute food shortage in 1965-66.
- (iii) The State where the Congress party failed to win a majority in the First General Election of India.
- (iv) The state that resisted its merger with the Union of India.



Serial No	Alphabet Name	Name of the State
i		
ii		
iii		
iv		



- Why has the bicycle been chosen to represent China?
- What do the symbols within the two wheels stand for?
- What message does the cartoon convey?

SECTION – E (24 Marks)

- 27 Analyze the positive and negative aspects of India's relationship with Bangladesh. 3+3=6

OR

“Military rule and democracy are the two sides of a coin in Pakistan.” Examine the statement. 1x6=6

- 28 Highlight any three positive and three negative features each of the Soviet system in the Soviet Union. 3+3=6

OR

Describe the role of Gorbachev to reform the Soviet system and the effects of these reforms on the USSR. 3+3=6

- 29 Evaluate any six factors that helped the Congress to continue to dominate the Indian political scenario for almost three decades after independence. 1X6=6

OR

Explain how the general elections of 1952 in India were a landmark in the history of democracy all over the world. 1X6=6

- 30 “India could have developed much better if private sector was allowed a free play right from the beginning.” Support your answer with suitable arguments. 1X6=6

OR

Analyze the major differences of the First Five Year Plan with the Second Five Year Plan. 1X6=6

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

Class: XII
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. Loss of sensation in body like paralysis without any identifiable physiological problem is an example of - 1
a) Anxiety Disorder b) Conversion Disorder
c) Mood Disorder d) Somatic Symptom Disorder
2. Which of the following refers to an individual's underline potential for acquiring skills? These are also used to predict what an individual will be able to do if given proper environment and training. 1
a) Attitude Test b) Aptitude Test c) Intelligence Test d) Personality Test
3. Which among the following provides us necessary information that may be used to change, modify or strengthen certain aspects of self? 1
a) Self-instructions b) Self-reinforcement
c) Observation of other's behaviour d) Observation of own behaviour
4. Personality characterised by proneness to cancer is classified as _____ 1
a) Type A b) Type B c) Type C d) Type D
5. Which among the following is one of the end result effects through the addictive meal behaviour? 1
a) hallucination b) obesity c) delusion d) phobia
6. Vinita has 9 to 5 job in a multinational company and two children to take care. She passionately does her job and also helps her kids in doing schoolwork, now she feels and getting tired and planning to do work from home. Name the stimulus event has disturbed and exceed a person's ability to cope? 1
a) conflict b) frustration c) stress d) sadness
7. The state of physical, emotional, and psychological exhaustion is known as – 1
a) resistance b) stress c) burnout d) coping

8. A dream like state separating self from reality is known as _____. 1
 a) dissociative amnesia b) dissociative identity
 c) dissociative fugue d) depersonalization/derealisation
9. A hunter must have high level of _____ intelligence. 1
 a) interpersonal b) intrapersonal c) linguistic d) naturalistic
10. These cells are attacked by Human Immuno Deficiency Virus - 1
 a) T cells b) B cells c) T-helper cells d) Natural killer cells
11. Priyanka is considered as a gifted child who shown early signs of intellectual superiority since childhood. She shows larger attention span, good recognition of memory, sensitivity to environmental changes and early appearance of language skills. What type of traits a gifted child adhered with? 1
 I. Advanced logical thinking II. High level of intrinsic motivation
 III. Solitary Academy activities IV. Passive generalization
 Choose the correct option -
 a) I, II and III b) II, III and IV c) III, IV and I d) IV, I and II
- Two statements are given in the question below as Assertion (A) and Reasoning (R). Read the statements and choose the appropriate option.**
12. **Assertion(A):** There may be many people who are academically weak but are successful in their own lives. 1
Reason(R): The source of their strength is their high level of emotional intelligence.
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, R is false
 d) A is false, R is true
13. **Assertion(A):** An individual will assess all the resources and coping to meet the challenges. 1
Reason (R): Coping is a dynamic situation-specific reaction to stress.
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, R is false
 d) A is false, R is true
14. **Assertion (A):** Cyclothymic disorder is a kind of mood disorder. 1
Reason (R): Depression covers a variety of oppositional behaviour and conduct issues.
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, R is false
 d) A is false, R is true
15. **Assertion(A):** Emotional stability is one of the kinds of source trait. 1
Reason (R): Emotional stability is a stable trait, and are considered as the building blocks of personality.
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, R is false
- d) A is false, R is true

SECTION – B

16. How is Karen Horney's viewpoint regarding women different from that of Freud's? 2

OR

 Explain inferiority complex as per Adlerian theory.
17. Sumana is having high entrepreneurial competence. Mention any four features of her intelligence. 2
18. Usha is experiencing panic disorder. Enumerates any two causes with reference to diathesis stress model which may have led to the disorder. 2
19. What is interactional approach to psychological disorders? 2
20. Sunita has broken the norm of a village by pursuing a higher-level academics. She deviated from the social norms of her village where higher education for girls was not accepted. Is her behaviour abnormal? Explain with reference to four Ds. 2
21. Aparna wants to use self-report measure for her research purpose. But she is not sure about its usefulness so she asked you to know about self-report measure. Explain her any two disadvantages of using self-report measure. 2

SECTION – C

22. Describe any four measures to prevent suicide. 3

OR

 Describe all three perspectives (supernatural, biological and psychological) of mental illness.
23. Sheema went out for a trip with friends to north India. Due to flood their return train was cancelled. Mentioned Sheema's levels of stress appraisal with proper explanation. 3
24. Arun is a Class-X student, addicted to mobile gaming. He wants to reduce his gaming time and to study effectively. Suggest the steps to increase his self-control. 3

SECTION – D

25. Ashu is a six-year-old who has profound difficulty in relating to other people. Often, he is found to be unresponsive to other people's feelings and exhibits stereotypical patterns of behaviour. Identify this disorder and describe its symptoms. 4
26. Priyadarshi is a school psychologist. He wants to assess the personality of Ronit who is student of class XI, but not ready to participate in assessment. Therefore, Priyadarshi decides to assess Ronit's personality by collecting information from his close friends. 2+2
 Identify and explain this method of personality assessment. Write two major limitations of this method.
27. Mr. Souvik is 45 years old bank employee. He is suffering due to increasing work pressures day by day. Now he has a lot of stress and tension. As a psychologist explain any four management techniques which will help Mr. Asutosh to reduce stress. 4

OR

- Preeti is a Class-XI commerce student who is facing difficulty to control her exam tension. Enumerate the common effects of 'evaluation stress'.
28. Angad has been a topper in class. He went to the top most college, where he was neither sensitive to himself not to others. This led to problems in interpersonal relationships regarding his condition. Explain the importance of emotional intelligence in his life. 4

SECTION – E

29. Intelligence is the interdependent functioning of three neurological systems. Explain this theory and mention the name of the theorist. 6

OR

Briefly discuss a theory of intelligence where intelligence is not considered as a single entity; rather distinct types of intelligences exist.

30. Asutosh is one of the members of an interview committee, where he is asked to understand the certain traits of the personality of the interviewee, like – imaginative, open to new ideas, hardworking, self-control etc. Explain a trait theory of personality which can help Asutosh to understand the above-mentioned traits. 2+4

OR

Alisha and Preeti both were close friends since childhood. They completed their school together and now studying in same college but their subjects are different. Now, Alisha gets busy with her study and spends more time with her new group of friends but she blames Preeti for not spending enough time with her. Alisha often discusses that Preeti is ignoring her.

Identify and explain the defence mechanism used by Alisha. Explain any other three types of defence mechanism with example.

SECTION – F

Read the case and answer the following questions:

Sundar, a college-going 20-year-old male, has moved from his home town to live in a big city. He has continuous fear of insecurity and feels that enemy soldiers are following him. He gets very tense when he spots anyone in a uniform and feels that they are coming to catch him. This intense anxiety is interfering with his work and relationship, and his friends are extremely concerned as it does not make any sense to them. Sundar occasionally laughs abruptly and inappropriately and sometimes stops speaking mid-sentence, scanning off in the distance as though he sees or hears something. He expresses concern about the television and radio in the room potentially being monitored by the enemies. His beliefs are fixed and if they are challenged, his tone becomes hostile.

31. Based on the symptoms being exhibited, identify the disorder. Explain any two other significant symptom that can be seen in this disorder. 2
32. Define delusion and support it with the symptoms given in the above case study. 1

Read the case and answer the following questions:

Anushka Jain, 29years old woman working in a private bank. She leaves with her husband and in-laws in a joint family setup. She enjoys spending good time with her in-laws. Recently she got a promotion. Her salary and responsibilities both increased. Now she is responsible to give the justification for any failure to achieve the target given by Head-Office. After the promotion, her work pressure and working hours have increased. She is not giving enough time to husband and family members. Though her husband and in-laws are supportive and trying to understand her current situation.

Sometimes she feels frustrated due to the work pressure and thinks to resign her job but she also enjoys her current position which she earned after lots of hard work. Sometimes she feels that she is not doing right with his husband and family. Therefore, she is facing problem to balance her professional life and personal life but she wants to have both equally.

33. Identify two types of conflicts of Anushka and explain them properly. 2
34. Mention one life skill which can help Anushka to balance her life 1

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

CLASS: XII
SUBJECT: SOCIOLOGY

MAXIMUM MARKS: 80
TIME: 3 HRS

General Instructions

1. The question paper is divided into four sections.
2. There are 38 questions in all and 4 pages. All questions are compulsory.
3. Section A includes question No. 1-20. These are MCQ type questions. As per the question, there can be one answer.
4. Section B includes question No. 21-29. These are very short answer type questions carrying 2 marks each. Answer to each question should not exceed 30 words.
5. Section C includes question No. 30-35. They are short answer type questions carrying 4 marks each. Answer to each question should not exceed 80 words.
6. Section D includes question No. 36-38. They are long answer type questions carrying 6 marks each. Answer to each question should not exceed 200 words each. Question No. 36 is to be answered with the help of the given graphics. Question No. 37 is to be answered with the help of the given passage.

SECTION A

1. "Considering from an urban point of view, the rapid growth in urbanization shows that the town or city has been acting as a magnet for the rural population." 1
Choose the incorrect statement about urbanization in India.
A. Rural to Urban migration has increased due to decline in common property resources.
B. Cities offer anonymity to the poor and the oppressed castes.
C. People go to cities in search of work.
D. Urban areas are a decisive force in terms of political power dynamics.
2. Assertion (A): The principal reasons for the decline in the death rate after 1921 were increased levels of control over famines and epidemic diseases. 1
Reason (R): The major epidemic diseases in the past were fevers of various sorts, plague, smallpox and cholera.
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.
3. Which of the following explains the situation of Tripura, where the tribal share of its population halved within a single decade, reducing them to minority? 1
A Heavy in-migration of non-tribals
B Accommodation of tribal identity
C Climate change
D Community-based forms of collective ownership
4. Assertion (A): Matriarchy, unlike patriarchy, has been a theoretical rather than an empirical concept. 1
Reason (R): There is no historical or anthropological evidence of matriarchy, where women exercise dominance.
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. "The pyramid for 2026 shows the estimated future size of the relevant age groups based on data on the past rates of growth of each age group. Such estimates are also called _____. 1
A. Projections C. Age pyramid
B. Demographic dividend D. Rate of natural increase

6. "The girls should be educated but within the precincts of their homes." Who reflected such a view? 1
- A. Sir Syed Ahmed Khan C. Ishwar Chandra Vidyasagar
B. Jotiba Phule D. M.G.Ranade
7. Assertion (A): The population pyramid shows a bulge in the middle age groups, due to opportunity provided by the demographic structure. 1
- Reason (R): This is due to high birth rate in the middle age group.
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.
8. "Famines were also a major and recurring source of increased mortality". Which of the following is NOT a cause of famines? 1
- A. Continuing poverty and malnutrition in agro-climatic environment.
B. Inadequate means of transportation and communication
C. Failure of entitlements
D. Increasing birth rate.
9. Which of the following is wrongly matched? 1
- A. Invisible Man : Ralph Ellison
B. Analogy of Religion : M.G.Ranade
C. The City : Daya Power
D. Sultana's Dream : Begum Rokeya Sakhawat Hussain
10. Assertion (A): Social exclusion is voluntary. 1
- Reason (R): Exclusion is practiced regardless of the wishes of those who are excluded.
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.
11. The way in which individuals may become cut off from full involvement in the wider society is known as: 1
- A. Social inequality
B. Social discrimination
C. Social exclusion
D. Social stratification
12. The people of India speak about 1,632 different languages and dialects. As many as twenty two of these languages have been officially recognized and placed under the _____ of the Constitution. 1
- A. 5th Schedule C. 6th Schedule
B. 7th Schedule D. 8th Schedule
13. Match list 1 with list 2 1
- | | |
|-----------------------------------|--|
| A. 15 th August 2005 | i. RTI came into force |
| B. 1 st November 1956 | ii. Emergency enforced in India |
| C. 13 th October, 2005 | iii. Apology speech by Junichiro Koizumi |
| D. June 1975 | iv. SRC was implemented |
- Codes
- | | | | |
|--------|-----|-----|-----|
| A | B | C | D |
| A. ii | i | iii | iv |
| B. iii | iv | i | ii |
| C. iv | i | ii | iii |
| D. iv | iii | I | ii |
14. After emergency the national family planning programme was renamed as 1
- A. National Family Welfare Programme.
B. National Family Planning Programme.
C. National Health Policy, 2017
D. National Population Policy, 2000

15. Assertion (A): Demographic data are important for the planning and implementation of state policies especially those for economic development and general public welfare. 1
Reason (R): Herbert Risley used anthropometric data in 1901 census.
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 _____ family is often seen as symptomatic in India. 1
A. Nuclear B. Patrilineal C. Patriarchal D. Extended
17. Assertion (A): Tribes are pristine societies uncontaminated by civilization. 1
Reason (R): Tribes should really be seen as 'secondary' phenomena arising out of the exploitative and colonialist contact between pre-existing states and non-state groups like the tribals.
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.
18. Assertion (A): From its very beginnings in Independent India, democratic policies have been deeply conditioned by caste. 1
Reason (R): Caste remains central to electoral 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.
19. In Indian language, the term 'Dalit' literally means 'downtrodden' and conveys the sense of an oppressed people. Which of the following is not related to Dalit Panthers? 1
A. Struggle for right C. Struggle for dignity
B. Emerged in Western India D. Emerged in Southern India
20. Assertion (A): Social stratification is supported by patterns of belief or ideology. 1
Reason (R): Social stratification persists over generations.
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.

SECTION B

21. A few work harder than those who are located at the lower ranks of society. As a South American proverb says—"If hard labour were really such a good thing, the rich would keep it all for themselves." 2
Defend this proverb using an example.
- OR
- "Often we discuss social exclusion and discrimination as though they pertain to differential economic resources alone. This however is only partially true."
Determine using two examples that social exclusion and discrimination do not pertain to differential economic resources alone.
22. Using Durkheim's study of Suicide, state what is aggregate statistics? 2
23. Who founded the Satyashodhak Samaj? What was its main objective? 2
24. In which stage of demographic transition the population explosion occurs and why? 2
25. "OBC are neither part of the 'forward' castes at the upper end of the status spectrum, nor of the Dalits at the lower end." 2
Elaborate the term OBC as per above mentioned statements with special reference to Indian Constitution.
26. Explain any two provisions of Indian Constitution that protect the minority rights of the country. 2
27. Explain two broad sets of issues that are most important in giving rise to tribal movements. 2
28. M.N.Srinivas coined two new concepts like 'Sanskritisation' and 'Dominant Caste' to understand the processes of change in society. Give the meaning of both the terms. 2

29. “In the 1920s, the Indian National Congress was reconstituted on linguistic lines. Its provincial units now followed the logic of language. At the same time, Gandhi and other leaders promised their followers that when freedom came, the new nation would be based on a new set of provinces based on the principle of language.” Other than linguistic identity statehood depends on other two factors. Mention them. 2

OR

Religious minorities like the Parsis or Sikhs may be relatively well-off economically. But they may still be disadvantaged in cultural sense.

How are privileged minorities politically vulnerable?

SECTION C

30. Critically analyze Malthusian theory of population. 4
31. Identify the markers that depict community identity? 4

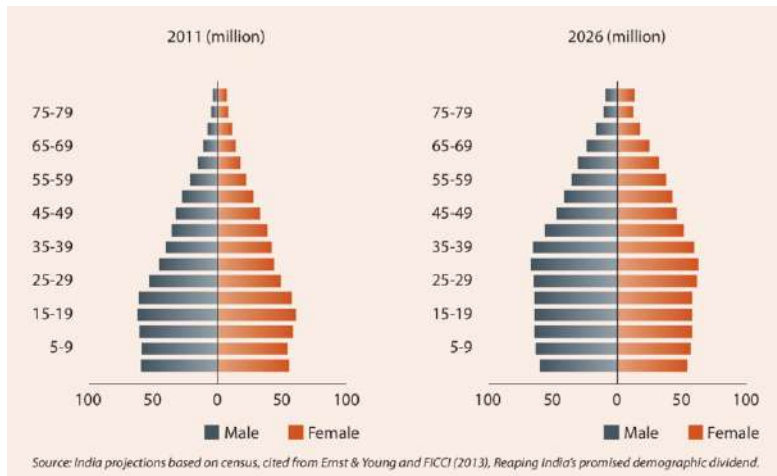
OR

“Assimilationist and integrationist strategies try to establish singular national identities through various interventions.” Explain.

32. Define untouchability. Discuss the three main dimensions of untouchability. 4
33. In what ways can changes in social structure lead to changes in the family structure? 4
34. What are the reasons that can be attributed to caste system becoming invisible for the upper classes, in the contemporary period? 4
35. State how the declaration of the Karachi Session of INC committed itself to women’s equality. 4

SECTION D

36. 2+4=6



Based on the given population pyramids of India for the year 2011 and 2026, answer the following questions.

- What is meant by age structure of population?
 - What do you infer, on comparing the given graphics for the age group of above 60 years and why did it happen so?
37. “Civil society is the name given to the broad arena which lies beyond the private domain of the family, but outside the domain of both state and market. Civil society is the non-state and non-market part of the public domain in which individuals get together voluntarily to create institutions and organisations. It is the sphere of active citizenship: here, individuals take up social issues, try to influence the state or make demands on it, pursue their collective interests or seek support for a variety of causes.” 6

Civil Society makes the state accountable to the Nation and its people. Explain with reference to the RTI Act.

38. Discuss the state and non-state initiatives addressing caste and tribal discrimination. 6

OR

What are major concerns for the Adivasis today?
