	Seat no:	

Time: 03 hrs   Max. Marks. 100

Note: 1)   **ALL** questions are **COMPULSORY** subject to internal choice if any.
2)   Working notes shall form part of your answer.
3)   Use of simple calculator is allowed.
4)   Figure to the right indicate full marks.
5)   Do not write anything except seat no. on the question paper.

Q.1   A)   Fill in the blanks with correct alternative and rewrite the sentence: (ANY TEN)   [10]

1)   Salaries of office staff appear in _____.
   A)   Trading Account   B)   Profit & Loss Account
   C)   Balance Sheet   D)   Manufacturing account

2)   The person who sells under hire purchase system is called _____.
   A)   Hire purchase vendor   B)   Consignor
   C)   Consignee   D)   Hire purchase buyer

3)   While preparing departmental final accounts, the electricity expenses is distributed amongst departments in the ratio of _____.
   A)   Number of employees   B)   Number of light points
   C)   Sales ratio   D)   Purchase ratio

4)   Closing stock of finished goods should be valued at _____.
   A)   Cost price only   B)   Market price only
   C)   Cost price or market price whichever is D)   Cost price or market price whichever
        lower   is higher

5)   In Hire Purchase transaction, Initial amount paid at the time of signing the contract is called _____.
   A)   Hire purchase price   B)   Down payment
   C)   Cash price   D)   Interest

6)   The semi-finished goods at the end of the year is known as closing stock of _____.
   A)   Raw material   B)   Work in progress
   C)   Finished goods   D)   Consumable stores

7)   The Manufacturing account is prepared to find out _____.
   A)   Gross Profit   B)   Cost of goods sold
   C)   Cost of production   D)   Net profit

8)   Sale of scrap is shown on _____.
   A)   Credit side of Trading Account   B)   Credit side of Manufacturing Account
   C)   Credit side of Profit & Loss Account D)   Debit side of Profit & Loss Account

9)   AS–9 does not deal with revenue arising from _____.
   A)   Sale of goods   B)   Interest
   C)   Service contracts   D)   Construction contracts

10) The purpose of AS 1 is to establish a Standard as to _____.
   A)   The preparation of final statements   B)   Fundamental accounting assumptions
   C)   Desirable accounting policies   D)   Disclosure of accounting policies

(P.T.O)

11) While preparing departmental final accounts, the Rent expenses is distributed amongst departments in the ratio of _____.
   A)   Area occupied   B)   Number of light points
   C)   Sales ratio   D)   Purchase ratio

12) While preparing final accounts of a manufacturing concern, the depreciation on machinery is transferred to _____.
   A)   Trading account credit side   B)   P & L account debit side
   C)   Manufacturing account debit side   D)   P & L account Credit side

B) **State whether the following statements are TRUE or FALSE (ANY TEN), students need not rewrite the entire sentence.** [10]

1) Departmental final accounts are prepared to know the profit/loss of each department separately.
2) When one department transfers the goods to other department, the journal entry to record the same will be, receiving department debit and giver department credit.
3) Adjustment of stock reserve is required when the inter-departmental transfer is at cost price.
4) Hire purchase price is lower than the cash price of the asset.
5) Insurance premium on comprehensive insurance policy is transferred to general profit and loss account while preparing departmental final accounts.
6) Over valuation of closing inventory leads to higher profits in current accounting year.
7) Hire purchase price + Interest = Cash Price
8) Depreciation on office equipment is debited to Manufacturing account.
9) Interest on asset purchased on Hire purchase basis is charged by the vendor.
10) Discount allowed is allocated on the basis of sales of each department.
11) Accrual concept implies accounting on cash basis.
12) Depreciation on asset is provided on its Hire purchase price.

Q.2   From the following Trial Balance of Mr. Atmaram, prepare Manufacturing A/c, Trading A/c, Profit and Loss A/c for the year ended 31st March, 2023 and Balance Sheet as on that date: [20]

Trial Balance of Mr. Atmaram as on 31st March, 2023

Particulars	Dr. (Rs.)	Cr. (Rs.)
Capital A/c		2,00,000
Opening Stock - Raw Materials	48,000	
Opening Stock - Work in Progress	8,000	
Opening Stock - Finished Goods	62,000	
Purchase of Raw Materials	5,00,000	
Direct Wages	72,000	
Factory Rent	16,000	
Machinery	2,00,000	
Sales		8,70,000
Cash at Bank	12,000	
Travelling & Conveyance	40,000	
Salaries	48,000	
Discount Allowed	14,000	
Sundry Creditors		1,80,000
Sundry Debtors	80,000	
Vehicles	1,50,000	
Total	**12,50,000**	**12,50,000**

Following further information is provided to you:
1. Closing stocks as on 31st March 2023 were:
   Raw Materials Rs. 50,000, Work-in-progress Rs. 16,000, Finished goods Rs. 70,000.
2. Depreciate Machinery @ 10% p.a. and Vehicles @ 15% p.a.
3. During the year the unrecorded credit sales amounted to Rs. 30,000
4. Provide Reserve for Doubtful Debts @ 5% on Debtors.

OR

Q.2   Prepare Departmental Trading and Profit and Loss Account and General Profit and Loss Account from   [20]
the following particulars:

Particulars	Dept. X	Dept. Y	Dept. Z	Total
	Rs.	Rs.	Rs.	Rs.
Purchases	1,80,000	1,20,000	60,000	3,60,000
Sales	4,00,000	3,20,000	1,60,000	8,80,000
Wages	60,000	48,000	40,000	1,48,000
Closing Stock	88,000	64,000	56,000	2,08,000
Salaries	26,000	14,000	18,000	58,000
Rent				14,000
Insurance				9,400
Motor Van Expenses				8,800
Advertising				13,200
Travelling Expenses				6,600
Carriage Inwards				24,000
Discount Received				7,200
Bad Debts				2,200
Audit Fees				3,600
Discount Allowed				4,400

Additional Information:
(1) There was no opening stock.
(2) The floor space occupied by the three departments X, Y and Z is in the ratio of 3:2:2.
(3) The Motor Van Expenses are to be divided equally between Departments Y and Z.
(4) The Insurance premium is for a comprehensive policy and cannot be allocated.

Q.3   The following particulars have been extracted in respect of Product X. Prepare a stores ledger account   [20]
and ascertain the value of stock on 31st May 2022 by First In First Out & Weighted Average Method.

   Receipts:
   01/5/2022 Opening Stock   400 units at Rs. 3.50 per unit
   03/5/2022 Purchased   600 units at Rs. 4.00 per unit
   13/5/2022 Purchased   1800 units at Rs. 4.30 per unit
   23/5/2022 Purchased   1200 units at Rs. 3.80 per unit
   26/5/2022 Purchased   1000 units at Rs. 5.00 per unit
   Issues:
   05/5/2022 Sold   800 units
   15/5/2022 Sold   1200 units
   25/5/2022 Sold   1000 units
   28/5/2022 Sold   1500 units

OR

Q.3   On 1st January,2020. M/s.Dhondhu purchased one machine from Gajab Panauti Ltd. on Hire purchase   [20]
system. The cash price of the machine is Rs. 5,00,000. The firm paid down payment of Rs. 1,00,000 on
1st January 2020 and balance in 3 Annual installments of Rs.1,60,000 each including interest at 10%
p.a. commencing from 31st December, 2020.
M/s. Dhondhu provides depreciation on machinery at 20% p.a. by Straight Line Method on 31st
December every year. The books are closed on 31st December every year.
You are required to give:
1. Machine A/c
2. Gajab Panauti Ltd A/c
3. Interest a/c
For the years ended 31st December 2020, 2021, 2022 in the books of M/s. Dhondhu.

Q.4   State with reasons whether the following expenditures or receipts are Capital or Revenue in nature.   [20]
   1) Cost of purchasing copyrights from the author.
   2) Spent for alteration of existing plant which would effect reduction in cost of production.
   3) Incurred expenditure on repairs before using a second-hand car purchased recently to put it in useable
condition.
   4) Repayment of loan taken earlier.   **(P.T.O)**

5) Wages paid for construction of building extension.
6) Repairs of machinery Rs. 10,000.
7) Material, wages and other expenses incurred for manufacturing goods.
8) Wages paid to the office peon.
9) Money received by issue of shares Rs. 50,00,000.
10) Money received from sale of goods.

OR

Q.4   From the following trial balance of M/s. Messi Prepare the Manufacturing, Trading and Profit & Loss   [20]
account for the year ended 31.03.23 and also a Balance Sheet as on that day after giving effect to the
adjustments following the trial balance.

Trial balance as on 31.03.23

Particulars	Dr. (Rs.)	Cr. (Rs.)
Stock as on 01.04.22		
Raw materials	13,000	
Work in progress	8,000	
Finished goods	19,000	
Capital		90,000
Machinery	20,000	
Furniture	8,000	
Drawing	3,000	
Office salary	6,520	
Cash at bank	13,500	
Cash on hand	910	
Sales		1,12,000
Purchase of raw materials	79,000	
Return inwards	390	
Wages	8,500	
Direct expenses	2,300	
Power	2,270	
Rent (1/6 for office and balance for factory)	3,000	
Investments	10,000	
Lighting (including RS.1,200 for office and balance for factory)	1,960	
Carriage outward	550	
Interest received		700
Bad debts	300	
Creditors		16,000
Debtors	18,500	
TOTAL	**2,18,700**	**2,18,700**

Adjustments:
1) Closing stocks were: Raw Material Rs.2,000, Finished Goods Rs.33,000 and Work in progress Rs.8,000
2) Machinery and furniture are to be depreciated @ 10 % & 15% respectively.
3) Unrecorded credit Purchases of raw material was Rs.5,000
4) Office salary outstanding was Rs.1,000

Q.5 A) Explain in detail AS-1.   [10]
     B) Explain in detail AS-9.   [10]

OR

Q.5   **Write short notes on: (ANY FOUR)**   [20]
   A) Basis of allocation of expenses amongst departments
   B) Stock reserve and Steps for calculating stock reserve
   C) Manufacturing account of a manufacturing concern
   D) FIFO and Weighted average method of stock valuation
   E) Fundamental accounting assumptions
   F) Items of inventory excluded from the scope of AS-2

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	Seat no:	

Time: 03 hrs   Max. Marks. 100

Note: 1) **ALL** questions are **COMPULSORY**.
        2) Figures to the right indicate full marks.
        3) Do not write anything except seat no. on the question paper.

Q.1 A) Explain the following terms in two to three sentences: (ANY FIVE)   [10]
1) Decoding
2) Peer Feedback
3) Blog
4) Horizontal Communication
5) Proximics
6) Marginal Listening
7) Enclosure
8) Jargon

Q.1 B) State whether the following statements are TRUE or FALSE: [05]
1) Sharing of confidential document of the company is ethically right.
2) Feedback is an important element of communication.
3) There is complete involvement of the listener in passive listening.
4) Anonymous communication are those on which everyone agrees.
5) Intranet is confined to use within an organization.

Q.1 C) Fill in the blanks choosing the best alternative from the ones given below: [05]
1) Moodle is a tool for _____.
    A) Twitter   B) E - learning
    C) WhatsApp   D) Facebook

2) Notice boards, circular and bulletins are means of _____ communication.
    A) upward   B) horizontal
    C) downward   D) grapevine

3) _____ is displaying honest behavior at all times.
    A) Patent   B) Copyright
    C) Creativity   D) Integrity

4) Noise is a _____ barrier.
    A) semantic   B) cross – cultural
    C) physical   D) psychological

5) _____ listening, one has no awareness about the content of the message.
    A) Superficial   B) Appreciative
    C) Empathetic   D) Focused

Q.2 Write short notes on: (ANY FOUR)   [20]
1) Importance of Communication in the Corporate World
2) E - mail
3) Advantages of written Communication
4) Grapevine Communication
5) Posters, Colors, Charts, Maps and Graphs   **(P.T.O)**

6) Diagonal Communication

Q.3 **Answer the following questions: (ANY TWO)** [20]
A) What is business ethics? In what way can one be ethical at the workplace?
B) Explain in detail any five psychological barriers to communication. What are the various means to overcome them?
C) What is listening? What are the different types of listening?

Q.4 **Draft a reply to the following advertisement:** [10]
"Wanted an accountant for a leading firm in Mumbai. Candidates should be graduates, and must have atleast two years experience. Knowledge of Tally and computers would be an added advantage. Apply immediately with detailed resume to Box No. A – 138, Times of India, Mumbai – 400 001."

Q.5 **Draft the following letters: (ANY FOUR)** [20]
A) You wish to pursue your Ph.d. in Economics from Cambridge University, UK. Draft the statement of Purpose to accompany your application.
B) Advait Panesar has been offered the post of Marketing Manager in Siyaram Enterprises. Draft a letter of acceptance on his behalf.
C) Draft a letter of recommendation for your sales executive who has given your name as referee in his application for the post of Asst. Sales Manager in another company.
D) Ms. Diksha Patel has changed her residence from Mumbai to Nasik. She has secured the post of accounts executive at Pioneer Private Ltd. Draft her letter of resignation from the post of accounts executive at Delta Enterprises.
E) Write a letter of appreciation to Mr. Vidyut Kumar from your sales department who has worked hard and contributed to the increase in sales of your company.

Q.6 A) **Write a paragraph in about one hundred fifty words: (ANY ONE)** [05]
i) Eco – friendly festivals
ii) Childhood memories

Q.6 B) **Read the following situation carefully and answer the questions given below:**
Pushkar had an MBA degree from Texas University in the US. He believed that this foreign degree equipped him for every job and situation. Indeed, he soon landed a high paying job. He worked hard and picked up well. His friend and college batchmate, Kartik who worked in the same firm often advised him to do online courses to stay relevant. But Pushkar felt he knew everything and joining such courses was a waste of time and money. He claimed that online courses were useless. No amount of convincing could change his mind. Three years later, Kartik who had completed five online courses in the meantime was promoted and Puskar was not. He tried arguing with his employers claiming he knew as much as Kartik but it fell on deaf ears.
i) Identify the barrier to communication in the above situation. [01]
ii) Why did Pushkar refuse to listen to Kartik's advice? [02]
iii) What change could have helped Pushkar? [02]

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	Seat no:	

Time: 03 hrs   Max. Marks. 100

Note: 1) **ALL** questions are **COMPULSORY**.
2) Figures to the right indicate full marks.
3) Do not write anything except seat no. on the question paper.

Q.1   A)   **Fill in the blanks with suitable options given below: (ANY TEN)**   [10]

1) Business activities such as product research, quality control, inventory management, etc., are related to _____ function.
   A) Marketing   B) Sales
   C) Finance   D) Production

2) _____ refers to reduction of Government control over business sector.
   A) Privatization   B) Decentralization
   C) Liberalization   D) Globalization

3) A _____ diversification consists of several diversified businesses.
   A) Concentric   B) Conglomerate
   C) Horizontal   D) Forward Integration

4) Profit is one of the _____ objectives of a business firm.
   A) human   B) organic
   C) social   D) economic

5) Business environment is _____ in nature.
   A) socialistic   B) systematic
   C) dynamic   D) static

6) Analysis of _____ environment helps a business firm to identify strength and weaknesses.
   A) National   B) Internal
   C) External   D) International

7) _____ environment includes laws, which define and protect the fundamental rights of individuals and organizations.
   A) Cultural   B) Technological
   C) Social   D) Legal

8) Proximity to market of a manufacturing plant is required in the case of _____ products.
   A) special   B) fragile
   C) luxury   D) durable

9) A _____ report is a blueprint guiding the entrepreneur to undertake a project.
   A) project   B) legal
   C) committee   D) market

10) _____ is the first element of a project report.
   A) Location   B) Project Outline
   C) Index   D) Cover page

(P.T.O)

11) Problem of dual responsibility is one of the _____ related problems of women entrepreneurs.
    A) business   B) psychological
    C) gender   D) social

12) In 1985, _____ introduced the concept of Intrapreneurship.
    A) Philip Kotler   B) Gifford Pinchot
    C) Elton Mayo   D) Perter Drucker

Q.1 B) State whether the following statements are TRUE or FALSE: (ANY TEN)   **[10]**

1) Human Resource Development is concerned with the analysis of market research undertaken by the employees of the firm.
2) Purchase and store keeping is an important element of marketing management.
3) Production refers to conversion of inputs into finished goods.
4) NAFTA stands for North American Free Trade Agreement.
5) Political stability brings consistency and firmness in government policies.
6) A feasibility study is a preliminary study undertaken to determine a project's viability.
7) Law and order situation is an important factor to be considered in plant location.
8) Profit is an important economic objective of a business.
9) DIN number is required for directors of a company.
10) The business planning process starts with formulating alternative strategies.
11) The project report is of importance only to entrepreneurs.
12) Non-monetary factors include higher salaries, bonus, incentives etc.

Q.2 Answer the following: (ANY TWO)   **[15]**
A) Explain the various functions of a business.
B) Describe Social objectives of a business with examples.
C) Detail the elements that lead to the adoption of a stability strategy.

Q.3 Answer the following: (ANY TWO)   **[15]**
A) Outline the characteristics of the business environment.
B) Elaborate on the educational environment and its influence on businesses.
C) Explain the Functions of WTO.

Q.4 Answer the following: (ANY TWO)   **[15]**
A) Detail the sequential process of business planning.
B) Describe the elements/components comprising a project report.
C) Explain various factors determining location of business.

Q.5 Answer the following: (ANY TWO)   **[15]**
A) Distinguish between Entrepreneur and Intrapreneur.
B) Explain various types of Entrepreneurs.
C) Explain the concept and characteristics of entrepreneurship.

Q.6 Write Short Notes on: (ANY FOUR)   **[20]**
A) Impact of Globalization
B) Human objectives of a business
C) Internal environment of a business
D) Positive impact of Trading Blocs
E) Areas of Feasibility Study
F) Problems faced by Women Entrepreneurs

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Seat no:	

Time: 03 hrs   Max. Marks. 100

Note: 1)   **ALL** questions are **COMPULSORY**.
2)   Figures to the right indicate full marks.
3)   Use simple calculator is allowed.
4)   Draw neat diagrams wherever necessary.
5)   Do not write anything except seat no. on the question paper.

Q.1   A)   **Select the best answer from the given options and rewrite the statement: (ANY TEN)**   [10]

i)   _____ shows the functional relationship between two or more economic variables.
   A)   Demand   B)   Graph
   C)   Consumption   D)   Slope

ii)   _____ refers to change in one variable due to change in other variable.
   A)   Equation   B)   Slope
   C)   Graph   D)   Supply

iii)   Market supply curve slopes _____.
   A)   Downward   B)   Upward
   C)   Horizontal   D)   Vertical

iv)   The monopoly firm faces _____ demand curve.
   A)   Upward   B)   Downward
   C)   Horizontal   D)   Vertical

v)   If cross elasticity of demand is positive, goods are _____.
   A)   Complementary   B)   Substitutes
   C)   Zero   D)   Not related

vi)   The _____ method uses time series data.
   A)   Survey method   B)   Delphi
   C)   Trend   D)   None of the above

vii)   When TP starts declining _____.
   A)   Marginal productivity is positive   B)   Marginal productivity is constant
   C)   Marginal productivity is negative   D)   Marginal productivity is one

viii)   Region between two ridge lines is called as _____.
   A)   Isoquant   B)   Iso-cost
   C)   Economic region   D)   Linear area

ix)   Tangency point of iso-cost and iso quant is the point of _____.
   A)   Consumer equilibrium   B)   Price Equilibrium
   C)   Producer equilibrium   D)   Quantity equilibrium

x)   _____ cost already incurred which cannot be recovered.
   A)   Total cost   B)   Social cost
   C)   Sunk cost   D)   Private cost

(P.T.O)

xi) _____ cost increases with increase in output and vice versa.
   A) Total variable cost   B) Total private Cost
   C) Total fixed cost   D) Total marginal cost

xii) Marginal cost cuts average cost from _____.
   A) Below at lowest point   B) Below
   C) Upper   D) At lowest point

B) **Write whether the following statements are TRUE or FALSE: (ANY TEN)** [10]
   i) Decision making process is the part of business economics.
   ii) Opportunity cost principle is useful for business decision making.
   iii) The increase in equilibrium price will shift the supply curve to the left.
   iv) Upwards sloping market demand curve moves to the right.
   v) Elasticity of demand is ratio of percentage change in quantity demanded due to percentage change in price.
   vi) Inferior goods are having positive income elasticity.
   vii) Qualitative method is also known as Statistical methods.
   viii) Supply function explains the functional relationship between price and demand.
   ix) All factors of production are fixed in long run.
   x) Higher cost reflected in economies of scope.
   xi) Avoidable cost also known as incremental cost.
   xii) If total revenue is greater than total cost, It indicates profit.

Q.2   A) What is business economics? Discuss its scope. [07]
      B) Discuss the use of marginal analysis in decision making. [08]
                                    OR
      C) Explain the basics of market demand, market supply and equilibrium price with the help of suitable diagrams. [07]
      D) From the following information, calculate Total Revenue, Average and Marginal Revenue and discuss the relationship between AR, MR and TR. [08]

Quantity (Units)	1	2	3	4	5
Price (in ₹)	10	20	30	40	50

Q.3   A) What are the determinants of demand? [07]
      B) When the price of an apples is ₹ 50/kg, the quantity demanded was 10 kg. If price increases to ₹ 70/kg then the quantity demand of an apples decreases to 5 kg. Calculate the price elasticity and interpret your result. [08]
                                    OR
      C) What is demand forecasting? Explain the significance of demand forecasting. [07]
      D) Estimate annual sales for the year 2024 (using OLS method) [08]

Year	2017	2018	2019	2020	2021
Sales (₹ in Lakhs)	2	6	8	14	10

Q.4   A) Write short note on production function. [07]
      B) What are the properties of equal product curve? [08]
                                    OR
      C) Discuss the producer's equilibrium with help of iso cost line and iso map. [07]

D) Using the following hypothetical data of a firm, calculate Average Product (AP), Marginal Product [08] (MP) and also draw the AP, MP and Total Product (TP) curves.

Labour Input (Units)	0	1	2	3	4	5	6	7	8	9	10
Total Product (Units)	0	10	22	36	52	66	76	80	82	82	78

Q.5 A) Distinguish between: [07]
  i) Fixed cost and variable cost.
  ii) Historical Cost and Replacement Cost

B) Given TFC as ₹ 20. Calculate TC, AFC, AVC, AC and MC [08]

Output (Units)	0	1	2	3	4	5	6
TVC (in ₹)	0	30	55	75	105	155	225

OR

C) Discuss the Break-even Analysis with the help of diagrams. [07]
D) If the price of the product is ₹ 1000/-, TFC is ₹ 2 lakh and AVC is ₹ 200. [08]
  i) Calculate Break Even output for the firm.
  ii) What will be break even quantity if TFC rises to ₹ 3 lakh?

Q.6 A) Discuss the nature of demand curves in different markets. [10]
B) State and explain the Law of return to scale with the help of iso map. [10]

OR

Q.6 **Write Short Notes: (ANY FOUR)** [20]
  i) Opportunity cost principle
  ii) Importance of business economics
  iii) Economies of scope
  iv) Implicit and Explicit cost
  v) Relationship between AC and MC
  vi) Learning curve

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Seat No. _____

Supervisor's Signature
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World Map

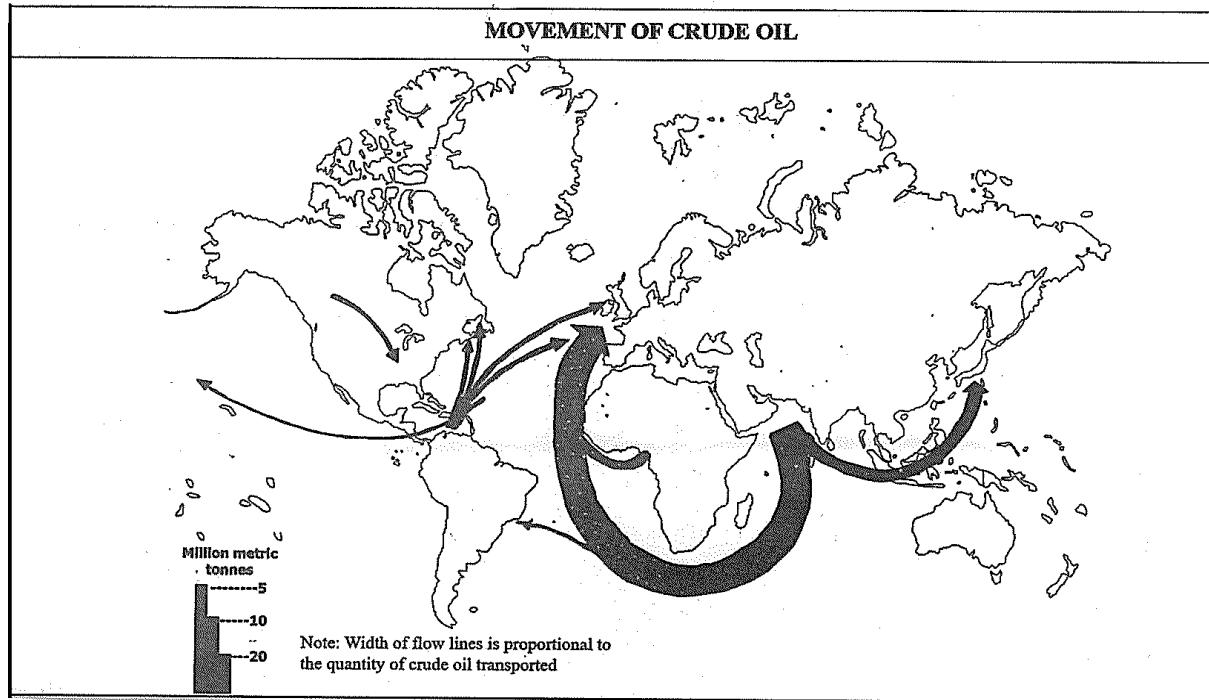| Seat no:	

Time: 03 hrs   Max. Marks. 100

Note: 1) **ALL** questions are **COMPULSORY**.
       2) Figures to the right indicate full marks.
       3) Tie the outline map to the main answer sheet
       4) Draw diagrams wherever required.
       5) Do not write anything except seat no. on the question paper.

Q.1 A) **Read the given map and answer the following question:**   [10]

1) What is the title of the map?   [01]
2) What is the cartographic technique used to represent the data?   [01]
3) Name a region exporting the highest amount of crude oil and how much is exported? [02]
4) What is the quantity of crude oil exported by Nigeria and Venezuela?   [02]
5) What is the quantity of crude oil imported by Japan and UK?   [02]
6) Explain in brief movement of crude oil in the world.   [02]

B) On the outline map of the world mark and name the following: [10]
1) Two earthquake prone countries.   [02]
2) Two mountains.   [02]
3) Two rivers.   [02]
4) Two insular countries.   [02]
5) Two smart cities.   [02]

Q.2 **Attempt ANY TWO from the following:**
A) Explain with examples the Natural Environment.   [10]
B) Account for the significance of Shape of a country.   [10]
C) Discuss the various types of Ecosystems.   [10]

Q.3 **Attempt ANY TWO from the following:**
A) What is conservation? State the methods of resource conservation.   [10]
B) Explain the various sources of conventional energy.   [10]
C) Write in details degradation of water resources in urban areas.   [10]

(P.T.O)

Q.4   **Attempt ANY TWO from the following:**

A)   Give a brief explanation on Demographic Transition Model with an example.   [10]

B)   What are the effects of population explosion in India?   [10]

C)   Explain the concept of Human Development Index in detail.   [10]

Q.5   **Attempt ANY TWO from the following:**

A)   Write the effects of urbanization and migration.   [10]

B)   Explain Urban Heat Island in detail.   [10]

C)   Write the causes of Migration.   [10]

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Seat no:	

Time: 02 hrs 30 min   Max. Marks. 75

Note: 1)   **ALL** questions are **COMPULSORY**.
2)   Figures to the right indicate full marks.
3)   Read the instructions carefully.
4)   Do not write anything except seat no. on the question paper.

Q.1   A)   **Choose the correct alternative: (ANY EIGHT)**   [08]

1)   Pardhi, Santhal, Jaintia, Naga are _____.
A)   Languages of India   B)   Textiles of India
C)   Tribes of India   D)   Religions of India

2)   _____ is the holy book of Buddhism.
A)   Tripitaka   B)   Agam Sutraa
C)   Torah   D)   Bible

3)   Raja Ram Mohan Roy organized a movement to oppose the practice of _____.
A)   Sati   B)   Dowry
C)   Polygamy   D)   Domestic Violence

4)   Pre-Conception and Pre-Natal Diagnostic Techniques Act (PCPNDT) is aimed at preventing _____.
A)   Female Foeticide   B)   Child Marriage
C)   Maternal Mortality   D)   Child Labour

5)   The Municipal Corporation of Greater Mumbai operates under the _____.
A)   State government   B)   Brihanmumbai Municipal Corporation
C)   Union government   D)   Central Government

6)   _____ is a serious form of conjunctivitis.
A)   Glaucoma   B)   Trachoma
C)   Astigmatism   D)   Hyper Pigmentation

7)   _____ is a belief or an ideology of a social, political or a religious group that their religion and practices are superior to those of other groups.
A)   Communalism   B)   Casteism
C)   Regionalism   D)   Nationalism

8)   The _____ to the Indian Constitution is called Preamble.
A)   Introductory note   B)   End note
C)   Foot note   D)   Alternate

9)   The word _____ implies equal treatment towards all religion.
A)   Socialist   B)   Secular
C)   Sovereign   D)   Democratic

10) The _____ is the first citizen of the city.
A)   President   B)   Governor
C)   Mayor   D)   Prime Minister

(P.T.O)

B) **State whether the following statements are TRUE or FALSE: (ANY SEVEN)** [07]
1) Maharashtra was the first state to be formed on linguistic basis.
2) Deficiency in Vitamin A may cause blindness.
3) During the vedic period, Indian women enjoyed a dignified and powerful status in the society.
4) Caste system promotes social progress and modernization.
5) Mahatma Gandhi is known as the father of the Indian Constitution.
6) Shiv Sena is an example of a regional party.
7) Urban Society is homogeneous in nature.
8) Caste is an endogamous group in the Indian society.
9) According to the Preamble of the Indian Constitution, India is a Sovereign, Socialist, Secular, Democratic, Republic.
10) Eve-teasing is a social violence against women.

Q.2 A) Discuss the unique features of the Indian society. [15]

OR

B) Discuss the main characteristics of tribal people in India.

Q.3 A) Explain the change in the status of women from the vedic period to the contemporary times. [15]

OR

B) Discuss the various kinds of violence faced by women. What measures would you recommend to solve the issues faced by women in India?

Q.4 A) Explain the inequalities generated due to caste system in India. Mention any three measures to solve caste conflict. [15]

OR

B) Explain the salient features of the Indian Constitution.

Q.5 A) What are the challenges of women's political participation in India? Suggest some measures for an increased participation. [15]

OR

B) **Write short notes on ANY THREE of the following:**
1) Rural-Urban characteristics of India
2) Portrayal of women in media
3) Fundamental duties of Indian Citizens
4) Diversity as difference
5) Sexual harassment at workplace

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Seat no:	

Time: 03 hrs.   Max. Marks. 100

Note: 1) **ALL** questions are **COMPULSORY**.
2) Figures to the right indicate full marks.
3) Use of simple calculator is allowed.
4) All questions carry equal marks.
5) Graph paper will be provided on request.
6) Do not write anything except seat no. on the question paper.

SECTION-I

Q.1   **Attempt ANY FOUR of the following:**   [20]

A) Sachin purchased 450 shares at market price of 110 per share at 1% brokerage. Find amount he paid.

B) Anil invested ₹20,000 in 15% shares of a company having face value ₹10 at market price of ₹80. Find total dividend he received.

C) Varun invested ₹15,000 in "ABC" mutual fund when NAV was ₹19.20. He received dividend of ₹4 per unit. Then he redeemed all the units when NAV was ₹22.50. Find his total gain.

D) Robert received ₹1,14,425 on selling few shares of a company at market price ₹230. If he paid brokerage of 0.5% in this transaction, find number of shares he held.

E) Amit is investing ₹ 2,000 per month for four months on 5th of each month. NAV on these dates were ₹15.50, ₹16.40, ₹14.60, ₹15.80. If he paid 1% entry load for all these months, find total units he purchased. Find average price, including the entry load, using Rupee Cost Averaging Method And compare it with A.M of prices.

Q.2   **Attempt ANY FOUR of the following:**   [20]

A) A box contains 6 green & 4 red balls. Three balls are randomly selected from this box. Find number of ways of selecting (i) all green balls (ii) 2 red & 1 green ball.

B) Solve following linear programming problem graphically.
Minimize z= 3x+2y, subject to x + 2y ≥ 4, X + Y ≤ 5, X ≥ 0 & Y ≥ 0

C) Four boys & two girls have to stand in a row for a photograph. Find number of arrangements in which (i) girls are at extreme positions (ii) girls are always together.

D) A person meets his daily requirements of vitamin V & mineral, M by consuming tablets A & B. Tablet A contains 3 units of V & 2 units of M, where tablet B consist of 2 units of V & 5 units of M. If daily requirements of V & M for this person is 10 & 12 units respectively. Cost of each tablet of A is ₹2 & that of B is ₹3. Formulate LPP to minimize daily expenditure on these tablets.

E) Find the values of (i) $3! \times {}^5P_2$ (ii) ${}^{10}C_4 \times 2!$

SECTION-II

Q.3   **Attempt ANY FOUR of the following:**   [20]

A) Calculate Standard Deviation for the following data:

x	2	4	6	8	10
Frequency	3	5	7	3	2

(P.T.O)

B) Draw histogram & locate Mode for the following data:

Class	0-10	10-20	20-30	30-40	40-50
Frequency	8	12	15	10	5

C) Calculate twentieth Decile (D_{20}) for the following data:

Class	0-5	5-10	10-15	15-20	20-25	25-30
Frequency	7	10	18	25	13	7

D) Calculate Coefficient of Mean Deviation from Median for the following data:

35, 42, 50, 62, 54, 46, 60

E) Calculate combined mean for the following. Also find group which is more consistent.

	Group I	Group II
Number	100	50
Mean	65	50
SD	4.5	5.2

Q.4 **Attempt ANY FOUR of the following:** [20]

A) Explain following terms with the help of an illustration.

   i) Impossible Event   ii) Complementary events

B) There are 3 boys & 2 girls. Three students are randomly selected to form a committee. Find probability that committee will consist of (i) all boys (ii) 2 boys & 1 girl.

C) $P(A) = 0.35$, $P(\bar{B}) = 0.6$ & $P(A \cap B) = 0.15$, find $P(A \cup B)$, $P(\bar{A})$.

D) There are 100 students in a class, 75 passed in English & 55 passed in Maths. If 40 passed in both, find probability that randomly selected student will pass (i) only in English (ii) not in Maths.

E) Calculate mean & variance of random variable, X having p. m. f. as follows:

X	0	1	3	4	7
P(X)	0.1	0.2	0.4	0.2	0.1

Also find $P(x > 5)$.

Q.5 **Attempt ANY FOUR of the following:** [20]

A) Draw a decision tree for the following pay-off table & find best decision.

Acts	States of nature		
	S1	S2	S3
A1	150	580	140
A2	275	620	-100
Probability	0.4	0.25	0.35

B) If the pay-off table is as given below, find best act using (i) Maximax criterion (ii) Laplace criterion.

Acts	States of nature			
	S1	S2	S3	S4
A1	85	145	175	50
A2	75	155	160	35
A3	110	120	240	80
A4	65	135	125	40

C) If the pay-off table is as given below, find best act using Minimax Regret criterion.

Acts	States of nature		
	S1	S2	S3
A1	78	60	110
A2	46	82	114
A3	55	-20	120
A4	66	80	100

D) If the pay-off table is as given below, find best act using EOL criterion.

Acts	States of nature		
	S1	S2	S3
A1	2000	1800	1500
A2	1700	2200	1600
Probability	0.3	0.5	0.2

E) The following is demand distribution of a certain product:

Number of units	10	12	15
Probability	0.2	0.5	0.3

The product is sold at ₹ 45 per unit with cost ₹ 30 per unit. Prepare a pay-off table & decide the best decision. The unit not sold is wasted.

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