

CODE:

Duration: 3 hours

- Instructions :- (1) All questions are compulsory having internal Options.  
 (2) Figures to the right indicate full marks.  
 (3) Use of simple calculator is allowed.  
 (4) Working notes are forming part of answers

- Q:1 A) Choose the correct answer from the options given below (Any 10) 10
- 1) ..... concept assumes that accounting policies are consistent from one accounting year to another accounting year.
 

a) Cost Price	b) Entity
c) Going Concern	d) Consistency
  - 2) Weighted Average Cost per unit =
 

a) Total Quantity of Inventory on Hand/Total Cost of inventory on Hand	b) Total Cost of Purchase/Total Quantity of inventory on Hand
c) Total Cost of Inventory on Hand/Total Quantity of inventory on Hand	d) Total Cost of Inventory on Hand/Average Quantity of inventory on Hand
  - 3) According to AS 9, Interest revenue should be recognised on a .....
 

a) On the last day of loan	b) time proportion basis
c) Cash basis	d) on the first day of loan
  - 4) Revenue expenditure means an expenditure.....
 

a) Incurred only on new assets purchased	b) From which benefit can be expected after one year
c) From which benefit can be expected within year	d) Incurred on old assets purchased
  - 5) Share issue expenses
 

a) May be treated as deferred revenue expenditure	b) Cannot be treated as deferred revenue expenditure
c) Are deducted from share capital	d) Increase the face value per share
  - 6) Which one of these is not a capital receipt?
 

a) Compensation from government for compulsory acquisition of land	b) Gift from proprietor's father deposited in the business bank A/c
c) Insurance claim received for loss of machinery by fire	d) Bad debt recovered during year
  - 7) Bad Debt is allocated to respective departments on the basis of .....of each department.
 

a) Area	b) No. of Workers
c) Purchases	d) Sales
  - 8) Discount received is allocated to respective departments on the basis of .....of each department.
 

a) Purchases	b) Sales
c) Advertisement	d) Area
  - 9) Goods transferred from department X to department Y will be .....
 

a) recorded on debit side of Department X	b) recorded on credit side of Department X
c) recorded on credit side of Department Y	d) not be recorded in any account





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Wages and Salaries – S	140,000	
Rent and rates (3/4 to R)	28,000	
Printing and Stationery – S	17,500	
Printing and Stationery – R	3500	
Sundry Expenses	10,500	
Plant and Machinery	70,000	
Office salaries	56,000	
Equipment	175,000	
Freight Inward Inwards (R)	231,000	
Furniture	357,000	
Rent Received		35,000
Debtors	189,000	
	56,35,000	56,35,000

Goods transferred from Department R to Department S Rs. 1,75,000 at cost. Closing stock of R on hand was Rs.3,36,000 and that in S amounted to Rs 26,250. Allocate Office Salaries and sundry expenses equally among two department. Allocate rent received in 2:3 ratio between R and S Department. Prepare Departmental Trading and Profit and Loss Account for the year ended 31-03-2023.

OR

- b) From the following figures for the year 2022-23 prepare accounts to disclose total profit and the profit of two departments Roy and Shinoy:

		Rs.
Opening Stock:	Roy	53,600
	Shinoy	44,800
Purchases:	Roy	2,94,400
	Shinoy	2,85,600
Sales:	Roy	4,52,000
	Shinoy	3,60,000
Sales Returns:	Roy	12,000
	Shinoy	8,000
Salaries:	Roy	32,000
	Shinoy	28,000
General Salaries		30,000
Rent and Rates		21,600
Advertising		32,400
Insurance (for building)		7,200
General Expenses		18,000
Discount allowed		10,800
Discount received		5,800
Carriage Inwards		11,600

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The following further information is supplied:

1. General Salaries and General Expenses are to be allocated equally.
2. The area occupied is in the ratio of 5: 4.
3. The Closing Stocks of the two departments were:
 

Roy	Rs. 82,000 and
Shinoy	Rs. 70,400.

**Q:3 Answer (a) or (b) of the following:**

20

- a) On 1<sup>st</sup> Jan, 2023, M/s Shanbaug Stores started trading. The following are the figures of purchases and sales for the year ending on 31<sup>st</sup> December 2023.

2023	Particulars	Quantity (Units)	Rate
Jan.	Purchases	6,000	@ Rs.40
March	Purchases	6,000	@ Rs.50
May	Sales	4,800	@ Rs.60
July	Purchases	12,000	@ Rs.40
October	Sales	12,000	@ Rs.60

Find out value of stock as per FIFO Method and Weighted Average Method

**OR**

- b) From the given Trial Balance of J.K. Manufacturers prepare Manufacturing, Trading and Profit and Loss Account and Balance Sheet for the year ended 31-03-2023.

Particulars	Debit	Credit
Capital	-	45,000
Drawings	1,800	-
Purchase Of Raw Materials	1,00,000	-
Bills Receivable	14,000	-
Cash/Bank	6,890	-
Plant	12,500	-
Furniture	23,000	-
Sales	-	1,50,000
Sales Return	1,100	-
Purchase Return	-	1,500
Carriage Inward	1,100	-
Opening Stock:		
-Raw Material	6,000	-
-Work-In-Process	10,000	-
-Finished Goods	4,000	-
Wages	8,860	-
Investments (Interest 5% p.a.)	10,000	-
Loan from Lallu	3,000	-
Bad Debts	450	-
Rent	1,380	-
Factory Lighting	350	-
Salary	4,750	-
Interest on Investments	-	350
Advertisement	2,850	-



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Sale of Scrap	-	3,870
Debtors	35,310	-
Creditors	-	39,200
Bills Payable	-	7,420
	2,47,340	2,47,340

Adjustments:

- 1) Closing Stock at the end was Raw Material Rs. 10,000, Work-in-Process Rs. 3,500 and Finished Goods Rs. 80,000.
- 2) 30% of Furniture is used in Office. Depreciate Plant by 5% and Furniture by 10%.
- 3) Finished goods Rs. 7,000 and Raw materials of Rs. 10,000 were destroyed by fire. Insurance Company admits a claim of Rs.5,000 and Rs.6,000 respectively.
- 4) Outstanding rent Rs.120
- 5) 40% of space of rental premise is used for office.

**Q:4 Answer (a) or (b) of the following:**

20

- a) Mr. Maruti purchased a Car on hire purchase basis from Swift Motors Ltd. on 01-04-2018 for Rs. 5,20,000 He paid Rs. 40,000 on signing the contract and four half yearly installments of Rs. 1,20,000 each plus interest on 30<sup>th</sup> September and 31<sup>st</sup> March every year. Swift Motors Ltd. charged interest at 20% p.a. Depreciation @ 20% p.a. on written down value is charged on car. Prepare Car A/C, Swift Motors Ltd., Interest A/c and Depreciation A/c Accounts in the books of Mr. Maruti for the year ended 31<sup>st</sup> March, 2019 and 31<sup>st</sup> March 2020 to give effect of above transactions.

OR

- b Classify the following in Capital/ Revenue/ Deferred Revenue Expenditure or  
i) Income with reason.

10

- 1) Paid fees to association.
- 2) Carriage inward for bringing machinery.
- 3) Amount received from sale of goods.
- 4) Paid salaries.
- 5) Payment for purchase of goods.

- b ii) SM & Sons purchased a machine from PS Associates on hire-purchase basis on 1<sup>st</sup> April, 2018. The terms of the contract were as follows: 10

The cash price of the printing machine was Rs. 3,00,000.

Rs. 60,000 were paid on signing the contract on 1<sup>st</sup> April, 2018.

The balance was paid in yearly installments of Rs. 80,000 each plus interest at 15% per annum.

The installments were paid on 31<sup>st</sup> March every year commencing from 31<sup>st</sup> March 2019.

SM & Sons charged depreciation at 20% per annum on the reducing balance method. They closed their books on 31<sup>st</sup> March every year.

Show Journal entries to record above transactions in the books of SM & Sons for year 1<sup>st</sup> April, 2018 to 31<sup>st</sup> March, 2019.

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Q:5 Answer (a) or (b) of the following:

(a) Answer the following:(Ten marks each)

- i) What is the meaning of Accounting Standards? Explain Fundamental accounting assumptions. 10
- ii) Explain features of AS-9 10

OR

(b) Answer the following:(any four) (Five marks each) 20

- i) Capital & Revenue Receipts
- ii) Manufacturing Account
- iii) Advantages and disadvantages of FIFO method of stock valuation
- iv) Features of AS-1
- v) Bases of allocation of expenditures in departmental accounting
- vi) Accounting entries in the books of Hire Vendor(seller)

-----X-----X-----X-----

Q:1

B.C

SEAT NO. \_\_\_\_\_

CODE:

Duration: 03 hours

Marks: 100

Instructions:- (1) All questions are compulsory.  
(2) Figures to the right indicate full marks.

- Q:1**
- A)** **Mark**
- 1) Explain the following terms in 2-3 sentences: (Any five)** **10**
- |                 |                             |
|-----------------|-----------------------------|
| a) Consensus    | b) Silence                  |
| c) Social Media | d) Horizontal Communication |
| e) Website      | f) Kinesics                 |
| g) You attitude | h) Appreciative listening   |
- B) Match the following:** **05**
- | Column-A                                     | Column-B              |
|--|-----------------------|
| 1) Moodle                                    | a) Mass communication |
| 2) Communicating with large number of people | b) Grapevine          |
| 3) Feedback                                  | c) E-learning tool    |
| 4) Hearsay                                   | d) Support            |
| 5) Patting on someone's back                 | e) Response           |
- C) Fill in the blanks by choosing the best alternative from the ones given below:** **05**
1. Message arises in the mind of the \_\_\_\_\_.  
a) sender b) receiver c) pardoner d) listener
  2. Social media creates \_\_\_\_\_ communities using a computer.  
a) venomous b) virtual c) real d) vain
  3. \_\_\_\_\_ is the way a person holds his/her body.  
a) Poise b) Poster c) Posture d) Position
  4. \_\_\_\_\_ scans your incoming e-mails.  
a) Anti-virus software b) Hardware c) Computer d) Webcam
  5. \_\_\_\_\_ reveals the identity of the sender.  
a) Salutation b) Subject line c) Head address d) Inside address
- Q:2 Write Short notes on: (Any four)** **20**
- a) Diagonal Communication
  - b) Verbal Communication
  - c) Need of Business Communication
  - d) The importance of Feedback
  - e) Blogs
  - f) E-mail



CODE:

Duration: 03 hours

Marks: 100

Q:3 Answer the following questions: (Any two)

- a) Describe five types of psychological barriers to communication? Suggest ways to overcome them.
- b) Define listening skills. Explain the different types of listening.
- c) Elucidate the traits of Personal Integrity at Workplace and their relevance in present times.

Q:4 Draft a reply in response to the following advertisement-

"Wanted a Project Manager for a company based in Mumbai. The applicant should have necessary background. Apply with resume to: Classic Business Park, Andheri-East, Mumbai- 4000059".

Q:5 Draft the following letters: (Any four)

- a) You wish to take admission for a postgraduate course in Finance Management from a University based in Singapore. Draft the statement of Purpose.
- b) Draft a letter of recommendation for your junior who is applying for the post of Senior Marketing Manager at Mohini Steel Authority Limited.
- c) You have received an offer for the post of secretary from Excelsior Studio Limited. Draft your letter of acceptance of the job offer.
- d) Mr Rishi Khanna wishes to relocate to Pune, Maharashtra for personal reasons. Draft his letter of resignation.
- e) Draft an appreciation letter for your junior, Mr Anirudh Gaekwad for exhibiting excellent efforts in increasing the sales of your company's new brand of washing machine.

Q:6 A) Write a paragraph in about 150 words on any one of the following:

- i) Significance of Reading
- ii) The problem of E-waste

B) Read the following situation carefully and answer the questions given below:

Mr Ishan Gaur, the newly appointed Supervisor at Hiralal Motilal & Sons believed that the matters concerning the organization must be directed through the various channels of hierarchy. He did not encourage staff to meet him. As a result, a lot of time was spent in dealing with various levels of hierarchy before finally reaching Mr Ishan. This created dissatisfaction among staff, also delayed decision making affected the functioning of the organisation.

- 1) Identify and explain the problem in the channels of communication that Mr Gaur practices.
- 2) How can the problems be overcome that the staff encounter?

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Duration: 03 hours

Marks: 100

Instructions:- (1) All questions are compulsory.

(2) Figures to the right indicate full marks.

Q:1

- A) Choose the correct answer from the options given below. (Any 10)
- 1) A ..... involve evaluating whether the project can be executed and operated safely in the interest of the employees and the people residing in the vicinity of the project.
    - a) Safety feasibility study
    - b) Managerial feasibility study
    - c) Environment feasibility study
    - d) Political feasibility study
  - 2) NIESBUD was established in ..... as an autonomous institute under the Ministry of Skill Development and Entrepreneurship, Government of India.
    - a) 1983
    - b) 1982
    - c) 1984
    - d) 1985
  - 3) ..... is the primary and fundamental objective of every business firm.
    - a) Growth
    - b) Prestige
    - c) Survival
    - d) Innovation
  - 4) The Indian government formulated the Foreign Exchange Management Act (FEMA) in .....
    - a) 1998
    - b) 1997
    - c) 1995
    - d) 1999
  - 5) The 1956 Resolution had reserved ..... industries for the public sector.
    - a) 15
    - b) 17
    - c) 18
    - d) 16
  - 6) Merger which takes place upon the combination of two companies which are operating in the same industry but at different stages of production or distribution is known as .....merger.
    - a) Vertical
    - b) conglomerate
    - c) Horizontal
    - d) Parallel
  - 7) ..... is a summarized statement of the proposed work.
    - a) Project Budget
    - b) Project Report
    - c) Project Plan
    - d) Project Draft
  - 8) ..... means integration of the various economies of the world leading towards the emergence of a cohesive global economy.
    - a) Globalization
    - b) Liberalization
    - c) Privatization
    - d) None of the above
  - 9) Turnaround involves taking a ..... turn to the declining fortunes of the company and making it viable again.
    - a) V
    - b) B
    - c) U
    - d) O
  - 10) A ..... entrepreneur is one who undertakes business to satisfy the contemporary demands of the market.
    - a) Modern
    - b) First generation
    - c) Classical
    - d) Technical
  - 11) ..... refers to retrenchment of surplus manpower of the business.
    - a) Regrouping
    - b) Downsizing
    - c) Decentralisation
    - d) Outsourcing
  - 12) ..... usually build and develop business around a skill.
    - a) Opportunity entrepreneurs
    - b) Specialist entrepreneurs
    - c) Social entrepreneurs
    - d) Visionary entrepreneurs

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- Q:1** B) State whether following statements are True or False. (Any 10)
- 1) Intrapreneur is an entrepreneur within an existing organization.
  - 2) Business is a part of social system.
  - 3) MSME units with a turnover of Rs. 1 crore or less per year have been exempted from payment of Excise Duty.
  - 4) Trade agreements refer to regional integration of nations for mutual benefit.
  - 5) Entrepreneurs place more emphasis on formalities rather than result.
  - 6) Survival is the secondary objective of every business firm.
  - 7) NAFTA is an agreement signed by the government of Mexico, USA and Canada, creating a trilateral trade bloc in North America.
  - 8) A feasibility study is a preliminary study undertaken to determine a projects viability
  - 9) Acquisition refers to any arrangement whereby two or more parties co-operate in order to run a business or to achieve a commercial objective.
  - 10) Law and order situation is an important factor to be considered in plant location.
  - 11) GATT was founded in 1947 with 23 countries including India.
  - 12) A project report is a written document containing complete information on the completed project.

- Q:2** Answer any two of the following
- a) What do you mean by business? Explain its functions.
  - b) Discuss the various features of business objectives?
  - c) Explain the impact of Liberalization.

- Q:3** Answer any two of the following
- a) Explain the importance of business environment.
  - b) Discuss the components of internal business environment
  - c) What is an impact of Trading Blocs?

- Q:4** Answer any two of the following
- a) Explain Project Planning and its importance.
  - b) What is the procedure in setting up a business unit?
  - c) Discuss the Licensing Policy in detail.

- Q:5** Answer any two of the following
- a) What are the factors contributing to growth of entrepreneurship?
  - b) Discuss the competencies of an entrepreneur.
  - c) Explain the problems faced by women entrepreneurs.

- Q:6** Write Short Notes on (Any 4)
- a) Macro Environment
  - b) Trade & Aids to trade
  - c) Impact of WTO on Indian Business / Economy
  - d) Globalization
  - e) Types of Entrepreneurs according to the type of business
  - f) External Environment

-----X-----X-----X-----



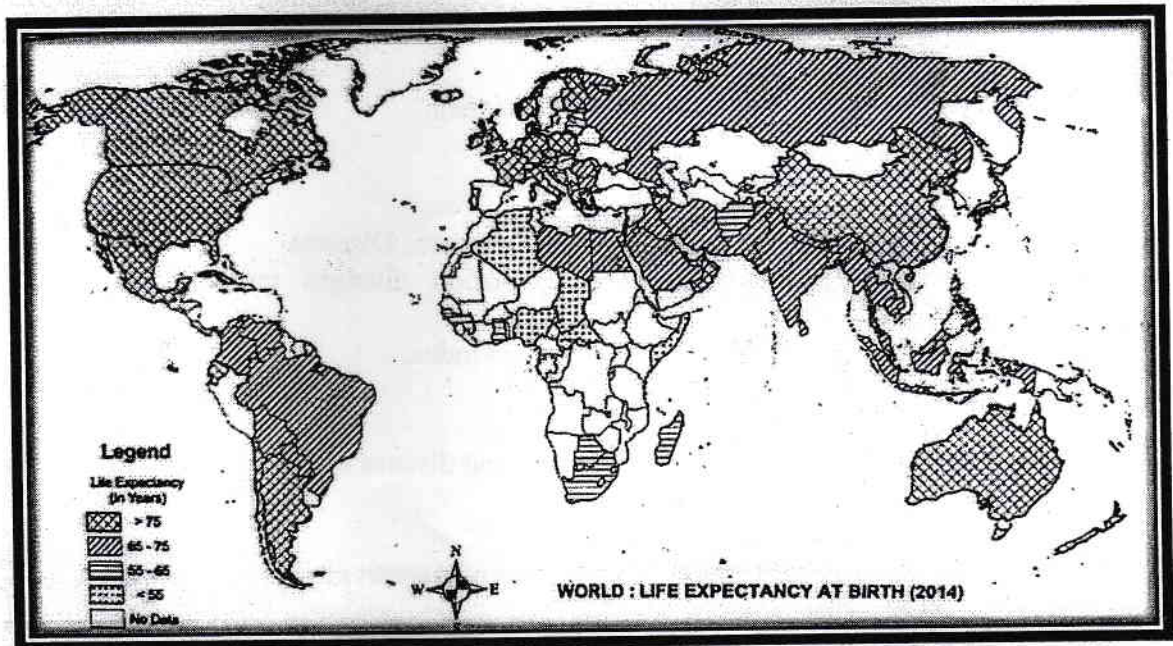
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Duration: 3 hours

Marks: 100

- Instructions: - (1) All questions are compulsory  
(2) Figures to the right indicate full marks.  
(3) Draw neat diagrams and figures wherever applicable  
(4) Attach the Map supplement to the main answer book.

Q:1 A) Study the World Map provided to you and give answers to the questions given on it 10



- 1) What is the theme of the map? 01
- 2) Identify the cartographic technique used in the given map. 01
- 3) According to the map name any one country in the southern hemisphere showing the highest life expectancy at birth in 2014. 01
- 4) Identify the continent showing the lowest life expectancy at birth in 2014 and give reasons for your answer. 03
- 5) Identify the continent showing the highest life expectancy at birth in 2014 and give reasons for your answer. 03
- 6) What is the life expectancy at birth in 2014 for India? 01

Q:1 B) Mark and Name the following features in the Outline World Map provided to you 10

- 1) A thick tropical rain forest in Africa.
- 2) The largest wind energy producing country.
- 3) Youngest mountain range in the world.
- 4) Biggest cold desert in the world.
- 5) World's largest producer of uranium.
- 6) A smart city in South America.
- 7) Country with the highest life expectancy in Asia.
- 8) Country with the highest HDI in Europe.
- 9) Country with highest petroleum deposits in the world.
- 10) Country having the largest forests cover in the world.

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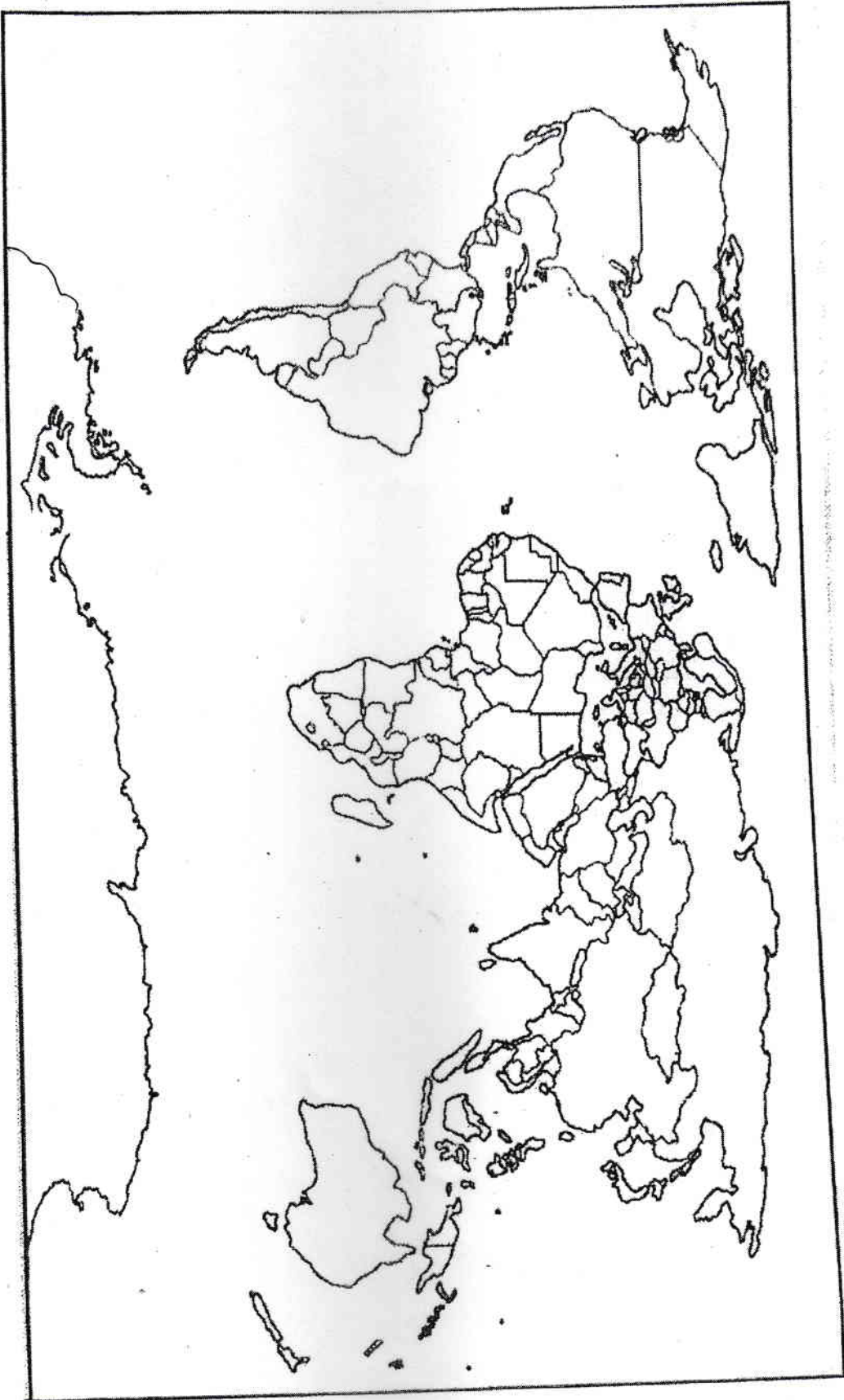
Duration: 3 hours

Marks: 100

- Q:2 Answer any two of the following:** 20
- a) Elaborate on the meaning, nature and scope of environment. 10
  - b) Classify and elucidate on the types of ecosystems. 10
  - c) Write a short note on the importance of environmental studies. 10
- Q:3 Answer any two of the following:** 20
- a) Identify the various factors influencing resource exploitation 10
  - b) Why is energy conservation so important in today's world and what are the problems faced in the same? 10
  - c) Write a short note on Sustainable Development. 10
- Q:4 Answer any two of the following:** 20
- a) Why is population explosion a matter of concern. Discuss. 10
  - b) Discuss the different stages of population changes mentioned in 'Demographic Transition Theory'. 10
  - c) Write a note on HDI and World Happiness Index. 10
- Q:5 Answer any two of the following:** 20
- a) Elaborate on the concept of urbanization and discuss on the causes and effects of migration on urbanization. 10
  - b) Explain Hoyt's landuse model in detail. 10
  - c) Define "Smart City?" Explain the features of a smart city? 10

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STUDENT'S SEAT NUMBER- \_\_\_\_\_

SUPERVISOR'S SIGNATURE- \_\_\_\_\_

CODE:

Marks: 100

Instructions:- (1) All questions are compulsory having internal options.  
(2) Figures to the right indicate full marks.

Q:1 A) Choose the correct answer from the options given below (Any 10) 10

- 1) \_\_\_\_\_ refers to a statement of equality of two expression or economic variable.  
a) Equations  
b) Marginal concept  
c) Variable  
d) Graph
- 2) The market supply schedule shows \_\_\_\_\_ relationship between price and quantity supplied.  
a) Inverse  
b) Direct  
c) No  
d) None of these.
- 3) Market \_\_\_\_\_ is derived by adding up all the individual demand.  
a) Demand  
b) Supply  
c) Cost  
d) Price
- 4) Which of the following is a case of linear demand function?  
a)  $D_x = f(P, Y, S, A)$   
b)  $D_x = f(P_x, P_y)$   
c)  $D_x = a + b + L$   
d)  $D_x = 100 - 5P_x$
- 5) Kinked demand curve is observed in \_\_\_\_\_ market.  
a) Perfect competition  
b) Monopoly  
c) Monopolistic competition  
d) Oligopoly
- 6) Point elasticity method is also known as \_\_\_\_\_.  
a) Geometric method  
b) Arc method  
c) Outlay method  
d) Ratio method
- 7) A positive cross-price elasticity coefficient implies that \_\_\_\_\_.  
a) Two products are substitutes  
b) Two products are complementary  
c) Two products have no relation  
d) Two products are jointly demanded
- 8) A kinked Iso-quant indicates \_\_\_\_\_.  
a) Limited substitutability of factors  
b) Continues substitutability of factors  
c) Perfect substitutability of factors  
d) Zero substitutability of factors
- 9) When the total product is maximum \_\_\_\_\_.  
a) Average product is maximum  
b) Average product is negative  
c) Marginal product is zero  
d) Marginal product is negative
- 10) Sunk cost means \_\_\_\_\_.  
a) Cost that is recovered  
b) Cost that cannot be covered  
c) Cost on assets which have resale value  
d) None of the above
- 11) Break-even point analysis is also referred as \_\_\_\_\_.  
a) Cost-volume analysis  
b) Total output  
c) Managerial decision technique  
d) Profit maximizing device



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- 12) Before break-even point firm gets loss, due to \_\_\_\_\_.
- a)  $TC = TR$                       b)  $TR > TC$   
c)  $TC > TR$                       d)  $MC > TR$

**Q:1 B) State whether following statements are True or False (Any 10)**

10

- 1) Demand is desired backed by willingness and ability to pay.
- 2) Market management is crucial for any business economics.
- 3) Opportunity cost arise because resources are unlimited.
- 4) Giffen goods are special type of inferior good named after Sir Robert Giffen.
- 5) If elasticity of demand equals to one, the marginal revenue is positive.
- 6) Law of demand given by E.H.Chamberlin.
- 7) Linear iso-quant is also known as straight line isoquant.
- 8) Two iso quants can intersect each other.
- 9) When percentage increase in output lesser than percentage increase in input is known as decreasing return to scale
- 10) Learning curve explain relation between labour cost and additional units of output.
- 11) Explicit costs are opportunity cost of the factors owned and used by the entrepreneur.
- 12) Break-even point analysis refers to  $TR = TC$ .

**Q:2 Attempt A and B or C and D:**

- A) Explain the Scope of Business Economics. 7  
B) Given the following data, calculate TR, AR and MR. Also identify the market structure and state the relationship between TR, AR, and MR. 8

Output (Units)	1	2	3	4	5
Price (Rs.)	12	10	8	6	4

**OR**

- C) Write an Explanatory note on Incremental concept and Marginal concept. 7  
D) If  $Q_{dx} = 65000 - 1000P_x$  describes demand for sports shoes. Complete the following table when  $P_x = 8, 7, 6, 5, 4, 3, 2$ . 8

**Q:3 Attempt A and B or C and D:**

- A) Explain degrees of Price elasticity along with diagram. 7  
B) Describe the nature of demand curve under Monopolistic and Oligopoly market. 8

**OR**

- C) What is demand forecasting and explain the importance of demand forecasting? 7  
D) What is promotional elasticity of Demand and find out promotional elasticity of Demand if quantity demanded of a commodity increases from 8,000 units to 10,000 units due to increase in advertisement expenditure from Rs. 6,000 to Rs. 12,000. 8

**Q:4 Attempt A and B or C and D:**

- A) Discuss any three properties of iso quant along with appropriate diagram. 7  
B) What are Diseconomies of scale? Discuss the various types of internal diseconomies of scale. 8

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OR

- C) Explain law of return to scale with appropriate diagram. 7
- D) The following table shows total production (TP) of a firm due to increase in labour input with a fixed input of capital: 8

Output (Units)	0	1	2	3	4	5	6	7
Total products (Units)	0	15	28	62	73	80	80	70

- i) Calculate Average Product and Marginal Product.
- ii) Name and Mark the three stages of law of variable proportion in the table.
- iii) In which stage will a rational firm operate? Justify your answer

Q:5 Attempt A and B or C and D:

- A) Derive the long run average cost curve along with appropriate diagram. 7
- B) Given TFC is Rs.50. Calculate TVC, AC, AVC, AFC, MC from the information given in the following 8

Output (units)	0	1	2	3	4	5	6
Total cost Rs.	50	75	95	120	150	185	225

OR

- C) What is Break -even point and explain its business applications. 7
- D) For a hypothetical firm, if price of product is Rs 12/-, TFC is Rs. 3000 and AVC is Rs 6/- then: 8
- i) Calculate breakeven output for this firm.
- ii) At the original TFC and AVC, how does breakeven quantity change if price falls Rs. 10 /-?
- iii) At the original price and AVC, how does breakeven quantity change if TFC decreases to Rs.2400/-?
- iv) At the original price and TFC, how does breakeven quantity change if AVC decreases to Rs.4 /- ?

Q:6 Attempt A and B OR Write short notes on any four:

- A) Write a detailed note on survey method of demand forecasting. 10
- B) Explain the concept of learning curve with suitable diagram. 10

OR

Write Short notes on any four of the following: 20

- a) Geometric method of price elasticity of demand
- b) Tools of Business economics
- c) Economies of scope
- d) Exceptions of law of demand
- e) Types of demand forecasting
- f) Relation between AC and MC

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CODE:

Duration: 2: 30 hours

Marks: 75

- Q:1 B) State whether following statements are True or False (Any 7) 07
- 1) English is the secondary official language of the Indian Union.
  - 2) Urban society is heterogeneous in nature.
  - 3) Polio is caused by a virus called poliovirus.
  - 4) The sex ratio in India has always remained unfavourable to women.
  - 5) Caste system brings out unity in Indian society.
  - 6) Regional conflicts do not damage the integrity and unity of the nation.
  - 7) Preamble reflects the philosophy of Indian Constitution.
  - 8) Economic justice stands for removal of poverty.
  - 9) Municipal Council is also known as Nagar Parishad.
  - 10) Mayor is the first citizen of a city.
- Q:2 Attempt any one of the following:- 15
- A) Bring out the linguistic and religious diversity in India. OR 15
- B) Examine the types of physical disabilities. 15
- Q:3 Attempt any one of the following:- 15
- A) Discuss the inequalities caused by the caste system. OR 15
- B) Define communalism. Describe the causes of communalism. 15
- Q:4 Attempt any one of the following:- 15
- A) Define fundamental duties. Explain the fundamental duties of citizens in India. OR 15
- B) Discuss the various features of the Indian constitution. 15
- Q:5 Attempt any one of the following:- 15
- Analyse the features of the political parties in India. OR 15
- Write Short notes on any three of the following: (Any 03) 15
- a) Multi- Cultural Society.
  - b) Different types of violence against women.
  - c) Caste conflicts in India.
  - d) Preamble of the Indian Constitution.
  - e) Concept of Rural Local self- Government.
- X-----X-----X-----

CODE:

Duration: 3 hours

N.B: -

Maths & Stats

- (1) All five questions are compulsory.
- (2) Each question carries 20 marks and each sub question carries 5 marks.
- (3) Use of simple non-programmable calculator is allowed.
- (4) Graph papers will be provided on request.

Q:1 Answer any FOUR of the following:

- a) Miss. A wants to invest some amount in one of the two companies X & Y. Company X with shares of face value Rs.100/- with a market price of Rs.240/- each & offering 15% dividend & company Y with shares of face value Rs.10/- with a market price of Rs.450/- each giving 25% dividend. Which company is better to invest? 5
- b) Mr.B invested Rs. 64,260/- in equity shares of Rs.100/- each at the market price of Rs. 180/- each. After receiving 10% dividend, he sold shares at Rs. 210/- each. He paid brokerage of 2% on each transaction. Find his percentage return? 5
- c) Mr.C invested Rs.73,500/- in two type of shares, partly in a number of 8% Rs.100/- shares at Rs.150/- and the remaining in some 5% Rs.100/- shares at Rs.120/-. His dividend incomes from the two types of shares were in the ratio 4:3. Find the amounts invested in the two types of shares. 5
- d) Mrs. D invested Rs. 25,000/- in a mutual fund scheme at an N.A.V. of Rs.72.6065. Due to entry load, the value of her units on that day stood at Rs.24,349.95. Find the no. of units purchased and also find the entry load percentage, rounded up to 2 decimal places. The numbers of units were rounded up to 3 decimal places. 5
- e) Find the average acquisition cost per unit (up to 3 decimal places) of an S.I.P. of Rs. 4,000 each, invested on the 5<sup>th</sup> of April 2022, May 2022 & June 2022 at the N.A.V.'s Rs. 50.100, Rs.52.455 and Rs. 57.761 respectively. The entry load was 2.25%. The number of units to be rounded off to 3 decimal places. 5

Q:2 Answer any FOUR of the following:

- a) In how many different ways can the letters of the word "THURSDAY" be arranged? How many of these arrangements begin with "S"? 5
- b) There are 11 males and 6 females out of whom a committee of 2 males and 2 females is to be formed. Find the number of ways in which the committee can be formed such that a particular male is included? 5
- c) Solve the following L.P.P. by graphical method: 5  
 Maximize  $Z = x + 5y$ ,  
 Subject to  $7x - 4y \leq 28$ ,  
 $3x + 4y \leq 12$ ,  
 $x \geq 0, y \geq 0$ .



- d) Solve the following L.P.P. by graphical method: 5  
 Minimize  $Z = 17x + 12y$ ,  
 Subject to  $4x + y \geq 12$ ,  
 $x + y \geq 3$ ,  
 $x \geq 0, y \geq 0$ .
- e) The daily requirement of vitamin A & B per person is at least 15 units & 18 units respectively. Food I contains 10 units of vitamin A & 20 units of vitamin B respectively. Food II contains 10 units of vitamin A & 13 units of vitamin B respectively per serving. The cost of Food I & Food II is Rs.21/- & Rs.17/- per serving respectively, formulate above problem as a L.P.P. to minimize the cost. 5

**Q:3 Answer any FOUR of the following:**

- a) Write short note on Requisites of Good Measures of Dispersion. 5  
 b) Calculate Mean and Range for the following distribution: 5

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	6	7	10	9	8	4

- c) Draw histogram for the following data. Hence locate Mode graphically. 5

Wages	15-25	25-35	35-45	45-55	55-65
No. of workers	10	25	30	15	5

- d) Calculate Quartile Deviation for the following data. Also calculate Coefficient of Quartile Deviation. 5

x	1	2	3	4	5	6	7	8	9
f	7	9	15	11	16	10	8	5	3

- e) Calculate median & mean deviation from median from the following data. Also calculate its coefficient. 5

No. of leaves taken in a year	2	4	6	8	10	12	14	16	18
No. of employees	3	5	7	9	11	10	8	6	1

**Q:4 Answer any FOUR of the following:**

- a) Explain the following terms with examples: 5  
 (i) Sample space (ii) Event (iii) Mutually Exclusive Event
- b) Two fair dice are tossed, find the probability that sum of the uppermost face of the dice is: 5  
 (i) less than or equal to 4, (ii) greater than 9
- c) One card is drawn from a well shuffled pack of 52 playing cards. Find the probability of getting: 5  
 (i) A Spade card (ii) Queen of diamonds (ii) An Ace of hearts.
- d) If A and B are any two events of sample space S and  $P(\bar{A}) = 0.8$ ,  $P(B) = 0.5$  and  $P(A \cap B) = 0.15$ , then find: (i)  $P(A)$  (ii)  $P(B/A)$  (iii)  $P(A \cup B)$  5
- e) For the following probability distribution, find the value of: 5  
 i) k ii)  $E(x)$  iii)  $V(x)$ .

x	10	12	14	16	18
P(x)	k	0.1	0.4	0.3	0.1

**Q:5 Answer any FOUR of the following:**

a) Discuss Components of Decision Theory. 5

b) From the following pay-off table, determine the best possible act by using (i) Maximax criterion, (ii) Laplace criterion. 5

Event \ Act	E <sub>1</sub>	E <sub>2</sub>	E <sub>3</sub>	E <sub>4</sub>
A <sub>1</sub>	200	65	95	180
A <sub>2</sub>	140	100	120	120
A <sub>3</sub>	160	130	100	190

c) From the following pay-off table, determine the best possible act by using Expected Opportunity Loss (EOL) criterion. 5

States of Nature	Course of action			Probability
	A1	A2	A3	
S1	180	140	130	0.4
S2	200	125	120	0.4
S3	160	170	130	0.2

d) The following is demand distribution of a certain product 5

No. of unit demanded	10	20	30
Probability	0.30	0.40	0.30

The product is sold at Rs. 110/- per unit with cost price Rs. 70/- per unit. Prepare a pay-off table. The unit not sold is wasted.

e) Draw decision tree for the following pay off table & determine the best possible act from it using Expected Monetary Value (EMV) criterion. 5

Course of action	States of Nature		
	S1	S2	S3
A1	2500	1900	2800
A2	3000	2500	3500
A3	3100	3000	2900
Probability	0.4	0.2	0.4

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