

CODE:

Duration: 3 hours

Marks: 100

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
- What is the primary focus of Accounting Standard 2 (AS2)
 - Fictitious Assets
 - Current Assets
 - Inventories
 - Fixed Assets
 - Stock taking for the year ended 31st March 2024 was made on 6th April 2024; Purchase Return during the period from 1st April 2024 to 6th April 2024 should be
 - added to the value of stock
 - deducted from value of stock
 - added to cost of purchase
 - deducted from cost of purchase
 - AS 9 does not deal with revenue arising from
 - Dividend recognized
 - Sale of goods
 - Interest recognized
 - Insurance Contract
 - Which one of these is a not revenue expenditure ?
 - Purchase of a goods
 - Cost of repair
 - Purchase of Used Car
 - Rent of a factory
 - Return inwards appearing in Trial Balance are deducted from
 - Sales
 - Purchases
 - Return inward
 - Carriage outwards
 - Bad debts recovered is shown
 - On the debit side of P & L A/c
 - On the credit side of P & L A/c
 - On the assets side of the balance sheet
 - On the liabilities side of the balance sheet
 - Rent is allocated to respective departments on the basis ofof each department.
 - Asset Value
 - Area
 - No. of Light Point
 - Sales
 - Interest on Investment received is recorded in
 - Departmental Balance Sheet
 - Departmental P&L Account
 - Departmental Trading Account
 - General P & L Account
 - Find the loading which is 20% of the invoice value of the goods if cost price of the goods is Rs. 2,00,000
 - Rs. 40,000
 - Rs. 60,000
 - Rs. 50,000
 - Rs. 48,000
 - In Hire Purchase system, amount paid on the date of agreement is called as _____
 - Installment
 - Interest
 - Down payment
 - Penalty
 - In Hire Purchase system, Hirer can dispose off goods after payment towards _____
 - Down Payment
 - First Instalment
 - Last Instalment
 - Possession
 - In Books of Hire Vendor , Interest received from hirer is _____
 - Debited to Hirer Account
 - Credited to Hirer Account
 - Debited to Assets Account
 - Credited to Assets Account

CODE:**Duration: 3 hours****Marks: 100****Q:1 B) State whether following statements are True or False (Any 10) 10**

- 1) According to AS 2 cost of inventory should exclude material cost.
- 2) Specific identification method of inventory valuation is followed in case of Item of same cost price.
- 3) Applicability AS 1 depends on Creditors.
- 4) Revenue receipts increase profits.
- 5) Purchase of Goodwill is deferred revenue expenditure.
- 6) If revenue expenditure is shown as capital expenditure then Accounts show higher profits but higher value of assets.
- 7) Carriage Inward is allocated to respective departments on the basis of purchases of each department.
- 8) Wages is recorded in departmental P&L Account.
- 9) Goods transferred from department X to department Y will be recorded on debit side of Department Y.
- 10) In Hire Purchase system, principal component plus interest is called as Installment.
- 11) Depreciation is not provided on asset purchase under Hire Purchase system.
- 12) Manufacturing A/c is prepared to find out Cost of Production.

Q:2 Answer (a) or (b) of the following: 20

- a) You are required to prepare a store ledger for a company that uses the FIFO method for inventory management. The following transactions occurred during the month of September, 2024

September, 15: Purchased 50 units at Rs. 960

September, 18: Purchased 200 Units at Rs. 1120

September, 20: Sold 70 units.

September, 21: Purchased 50 units at Rs. 1,200.

September, 22: Purchased 100 units at Rs. 1,280 per unit.

September, 25: Sold 150 units.

September, 28: Purchased 200 units at Rs. 1,360 per unit

Calculate the closing balance in terms of quantity and value as on 30 September 2024.

OR

- b) R Sons purchased a printing machine from Savita Printers on hire-purchase basis on 01-04-2018. The terms of the contract were as follows:

The cash price of the printing press was Rs. 75,000.

Rs. 15,000 were paid on signing the contract on 01-04-2018.

The balance was paid in installments of Rs. 20,000 plus interest at 15% per annum.

The installments were paid on 31st March every year commencing from 31st March 2019.

R Sons charged depreciation at 20% per annum on the straight line method. They closed their books on 31st March every year.

Show working of installments and Machine Account and Savita Printers Account in the books of R Sons for the year ended on 31-03-2019, 31-03-2020 and 31-03-2021.

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Q:3

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

- a) From the following trial balance of Mr. Raj, you are required to prepare Manufacturing A/c, Trading A/c and Profit & Loss A/c for the year ending 31st March, 2024 and Balance Sheet as on that date after considering the adjustments:

Debit balances	Rs.	Credit balances	Rs.
Opening Stock:		Sales	1,11,000
Raw Materials	4,400	Returns(Raw materials)	150
Work in Progress	2,500	Capital	25,500
Finished Goods	7,500	Bills payable	1,650
Purchases of Raw materials	63,000	Sundry creditors	12,000
Returns	300	Dividend received	30
Bank charges	21	Bank of India	6,000
Cash in hand	300	Sale Of Scrap	150
Wages	1,500		
Plant and machinery	13,500		
Royalty	1,500		
Office building	9,000		
Delivery Van	4,500		
Interest on bank loan	900		
Office salaries	6,000		
Furniture	3,000		
Insurance	480		
Bills receivable	3,000		
Advertisement	1,140		
Stationery and printing	1,500		
Carriage inward	459		
Travelling expenses	750		
Debtors	30,000		
Bad debts	450		
Loose tools	780		
Rs. 156480		Rs. 156,480	

Adjustments:

- Closing stock : Raw Materials Rs.3,000 Work in Progress Rs.500; Finished Goods Rs.3,300
- Depreciation is to be provided on Furniture @ 20%, Office building 20% and Plant and Machinery @ 5% .

OR

CODE:**Duration: 3 hours****Marks: 100**

- b) State with reasons whether the following items are capital or revenue Expenditure and Receipts items:
1. Purchase of Raw material Rs.10,000
 2. Purchase of Furniture Rs.50,000
 3. Amount paid Rs.100,000 for rent
 4. Received Rs.20,000 for sale of goods
 5. Machinery sold for Rs.40,000
 6. Loan installment paid Rs.5,000
 7. Wages paid Rs.2,000 for installation of machinery.
 8. Amount received rs.2,000 from debtors
 9. Paid Rs.600 on account of purchase of raw materials.
 10. Discount allowed Rs.200

Q:4 Answer (a) or (b) of the following:**20**

- a) X & Sons has two departments. They maintain separate records for each department. You are requested to prepare the Trading A/c and Profit & Loss A/c of each department and a Balance Sheet for the year ended on 31st March 2024 on the basis of the following information:

Particulars	Dept. I	Dept. II	Other Balances
Opening Stock (1.4.23)	50,000	40,000	
Purchases	4,60,000	3,80,000	
Purchase Returns	60,000	80,000	
Sales	12,66,000	9,84,000	
Sales Returns	66,000	84,000	
Wages & Salaries	3,60,000	3,20,000	
Sundry Expenses	70,000	64,000	
Closing Stock (31.3.24)	52,000	48,000	
Plant & Machinery			4,80,000
Buildings			2,40,000
Furniture & Fittings			96,000
Salaries			15,000
Selling Expenses			2,56,000

Depreciate Plant & Machinery by 10 %, Buildings by 5%, and Furniture & Fittings by 10%. All unallocated expenses are to be allocated equally amongst the departments.

OR

- b) XYZ Ltd. deals in electronic gadgets. The following are the details of purchases and sales during January 2024:
- Jan 1: Opening stock: 20 units @ Rs. 40 per unit
- Jan 4: Purchased 30 units @ Rs. 50 per unit
- Jan 8: Sold 25 units
- Jan 10: Purchased 25 units @ Rs. 55 per unit
- Jan 15: Sold 35 units

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Jan 20: Purchased 40 units @ Rs. 60 per unit

Jan 22: Sold 30 units

Jan 25: Purchased 50 units @ Rs. 62 per unit

Jan 27: Sold 40 units

Jan 30: Purchased 20 units @ Rs. 65 per unit

Using the weighted average method, calculate the value of the closing inventory as of 31st January 2024.

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

20

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

- I)** Explain benefits of Accounting Standards and Fundamental accounting assumptions.
- II)** Explain Journal entries in the books of Hire Vendor

OR

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

- I)** Capital & Revenue Expenditures
- II)** Cost of Production
- III)** Advantages and disadvantages of FIFO method of stock valuation
- IV)** Features of AS-9
- V)** Departmental accounting
- VI)** Hire purchase system

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CODE:

Duration: 3 hours

Marks: 100

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

- Q:1 A) Explain the following terms in two to three sentences each. (Any five)** 10
- | | |
|-----------------------|------------------------|
| a) Feedback | b) Pretended Listening |
| c) Blogging | d) Ideation |
| e) Personal Integrity | f) Jargon |
| g) Moodle | h) Consensus |
- Q:1 B) Match the columns.** 05
- | A | B |
|-------------------------|--------------------------|
| 1 Written Communication | a Physical Barrier |
| 2 Noise | b Downward Communication |
| 3 Marginal Listening | c Legal Validity |
| 4 Instruction | d Local Area Network |
| 5 LAN | e Listening Partly |
- Q:1 C) Fill in the blanks choosing the best alternative from the ones given below:** 05
- Visual communication happens through _____.
 a) Sound b) Pictures
 c) Language d) Music
 - Communication should result in a/an _____ response.
 a) Lengthy b) Short
 c) Understanding d) Obnoxious
 - _____ scans incoming mails.
 a) CD b) Virus Protection
 c) Filter d) VCR
 - Vertical communication is _____ communication.
 a) Two-way b) One-way
 c) Obsolete d) Flexible
 - Silence during a lecture indicates _____.
 a) A play of words b) Indifference
 c) Negation of words d) Respect to the speaker
- Q:2 Write short notes on the following: (Any four)** 20
- Diagonal communication
 - Paralanguage
 - Advantages of Facebook
 - Advantages of written Communication
 - Noise
 - Kinesics

CODE:

Duration: 3 hours

20

Q:3 Answer the following: (Any two)

- Discuss the various organisational barriers to communication. Suggest ways to overcome them.
- Explain the role of Journalistic media in a democracy. Comment upon the responsibility of media in terms of ethical standards.
- What is listening? Explain the importance of cultivating good listening skills.

10

Q:4 A) Draft reply in response to the following advertisement:

"Urgently required smart accountant for Apna Satkari Bank. Candidates should be B.Com. graduate with knowledge of Tally software. Candidates meeting the requirements should send in an application along with the resume to- Box No-1254, The Times of India, Mumbai."

20

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

- You are applying for admission to the Graduation Course in Management in Trinity College, Dublin, Ireland. Draft a Statement of Purpose to be addressed to the concerned institute. Highlight your experience, interests and goals.
- Write a recommendation letter for your subordinate who has given your name as a referee in her application for the post of Manager at Ulhas Hotel, Pvt. Ltd., Chiplun.
- You have been selected as Manager of Gappu Finance Ltd., Nashik. Draft a letter of acceptance of the job offer.
- You wish to resign from your position of Cashier at Mikaji Foods Pvt. Ltd. as you are likely to join another company with better position and salary. Draft a letter of resignation to your present employer.
- As Chief Manager of Leela Motors, draft a letter of appreciation to the manager of the Vashi branch of your company for making record sales of cars in the last fiscal year.

05

Q6. a) Write a paragraph of not more than 150 words on any one of the following topics:

- Financial Literacy
- My Inspiration

b) Read the following situation carefully and answer the questions below:

An Office Manager gave his new clerk a letter with the instruction, "Take it to our stockroom and burn it". In the Office manager's mind, the word 'burn' meant to make a copy on a company machine which operated by a heat process. As the letter was extremely important, she wanted an extra copy. However, the puzzled new employee, afraid to ask questions, burned the letter with a lighted match and thus destroyed the only existing copy.

- What problem do you see in this situation?
- Discuss the solution to this problem.

03

02

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CODE: Bus. Economics Duration: 3 hours

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) _____ is the economics of business or managerial decision.
 - a) Micro economics
 - b) Macro economics
 - c) Indian economics
 - d) Business economics
 - 2) Opportunity cost refers to the _____.
 - a) Cost of production
 - b) Selling cost
 - c) The next best alternative that firm sacrificed.
 - d) Overhead cost
 - 3) Market _____ curve is derived by adding up all the individual supply curves.
 - a) Demand
 - b) Supply
 - c) Cost
 - d) Price
 - 4) The law of demand shows a demand curve that is _____.
 - a) Horizontal
 - b) Vertical
 - c) Upward sloping
 - d) Downward sloping
 - 5) Income elasticity of demand for normal goods is _____.
 - a) Positive
 - b) Negative
 - c) Constant
 - d) decreasing
 - 6) Point elasticity method is also known as _____.
 - a) Geometric method
 - b) Arithmetic method
 - c) Outlay method
 - d) Ratio method
 - 7) _____ is a property of Isoquant.
 - a) Slopes upward to the right.
 - b) Convex to origin.
 - c) Intersect each other
 - d) Touches either axis.
 - 8) Law of returns to scale operates in _____.
 - a) Medium term
 - b) Short term
 - c) Short & Medium term
 - d) Long term
 - 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 rising
 - 10) _____ cost is due to factors owned by entrepreneur himself and employs in the firm.
 - a) Implicit
 - b) Explicit
 - c) Sunk
 - d) Incremental
 - 11) _____ analysis compares total revenue with total cost.
 - a) Break- even analysis
 - b) Pay-back period
 - c) Point analysis
 - d) Demand forecasting

CODE:**Duration: 3 hours****Marks: 100**

- D)** The following table shows total product (TP) of a firm due to increase in labour inputs combination with a fixed input of capital: **8**

Output (Units)	1	2	3	4	5	6	7	8
Total products (Units)	50	110	180	240	270	282	282	240

- Calculate AP and MP.
- Name and Mark the three stages of law of variable proportion in the table
- In which stage will a rational firm operate? Justify your answer.

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

- A)** Explain the following concepts: **7**

1) Explicit cost and Implicit cost 2) Fixed cost and Variable cost

- B)** Given TFC as Rs.110/- Calculate TC, AC, AVC, AFC, MC from the information given in the following. **8**

Output (units)	0	1	2	3	4	5	6
TVC (Rs)	0	60	110	150	210	310	450

OR

- C)** What is Break -even point and explain its business applications. **7**

- D)** For a hypothetical firm, if price of product is Rs 24/-, TFC is 6000 and AVC is Rs 12/- then: **8**

- Calculate breakeven output for this firm.
- At the original TFC and AVC, how does breakeven quantity change if price falls Rs. 20 /-?
- At the original price and AVC, how does breakeven quantity change if TFC decreases to Rs 4800/-?
- At the original price and TFC, how does breakeven quantity change if AVC decreases to Rs 8 /-?

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)** What is learning curve? Explain with the help of a diagram. **10**

OR

Write Short notes on any four of the following: **20**

- Functions and equations
- Geometric method of price elasticity of demand
- Exceptions of law of demand
- Long run average cost curve.
- Ridge lines.
- Limitations of break-even analysis.

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CODE:A

Duration: 3 hours

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) WTO replaced _____.
a) GATT
b) GATS
c) GST
d) TRIM's
 - 2) _____ is concerned with foreign investments.
a) TRIPs
b) AOA
c) TRIMs
d) GATS
 - 3) EU stands for _____.
a) European Union
b) Europe United
c) Europe Undivided
d) European Market
 - 4) _____ is Concerned with Importing of goods and then Selling the same to another Country.
a) Entrepot
b) Import
c) Export
d) Purchase
 - 5) Environmental factors are _____.
a) Stable
b) Dynamic
c) Isolated
d) Negligible
 - 6) _____ is an example of trading bloc.
a) SAARC
b) WHO
c) IMF
d) WWF
 - 7) _____ refers to transformation of loss- making unit into a profitable one.
a) Turnaround
b) Privatization
c) Globalization
d) Delicensing
 - 8) _____ one of the Components of internal environment.
a) Human resource
b) Customers
c) Government
d) Political environment
 - 9) _____ refers to reduction of government over business sector.
a) Liberalization
b) Turnaround
c) International
d) Globalization
 - 10) _____ Concept of business is Concerned with Customer satisfaction.
a) Traditional
b) Modern
c) Price
d) Production
 - 11) _____ is required for tax deduction at source.
a) TIN
b) DIN
c) TAN
d) Form26A
 - 12) Entrepreneurs concerned with welfare of the people are called _____.
a) Social
b) Economic
c) Business
d) Legal

- Q:1 B) State whether following statements are True or False (Any 10)** 10
- 1) Internal environment factors can be Controlled.
 - 2) Creating wealth is an economic objective of business.
 - 3) A Project report is of importance only to the entrepreneur.
 - 4) NAFTA stands for North American Free Trade Area.

CODE:A

Duration: 3 hours

Marks: 100

- 5) Industry is Concerned with production of goods and services for satisfying human wants.
- 6) A single act of buying and Selling can be called as business activity.
- 7) Mahila Vikas Nidhi provides women with development.
- 8) Education is useful to improve the performance of business.
- 9) The modern Concept of business is concerned only with profits.
- 10) Entrepreneurship and Intrapreneur are one and the Same Concept.
- 11) Mining Industry is an example of Extractive Industry.
- 12) PAN is necessary for filing of Income tax return.

Q:2 Answer any two of the following

15

- a) Define Business and explain its features.
- b) Bring out the classification of Business Objective.
- c) Explain the impact of liberalization on the Indian economy.

Q:3 Answer any two of the following:

15

- a) What is business environment? Explain its important.
- b) Explain various micro environment Factors.
- c) Describe the various function of WTO.

Q:4 Answer any two of the following:

15

- a) Discuss the concept and explain the importance of Project planning.
- b) What are the factors influencing location of business unit.
- c) Discuss the licensing and registration of a business unit.

Q:5 Answer any two of the following:

15

- a) Define Entrepreneurship. Explain its Characteristics.
- b) Which qualities should Entrepreneur have?
- c) What are the problems of women entrepreneurs.

Q:6 Write Short Notes on (Any 4)

20

- a) SAARC
- b) Intrapreneur
- c) Privatization.
- d) Major trading blocs.
- e) Educational Environment
- f) Restructuring strategy

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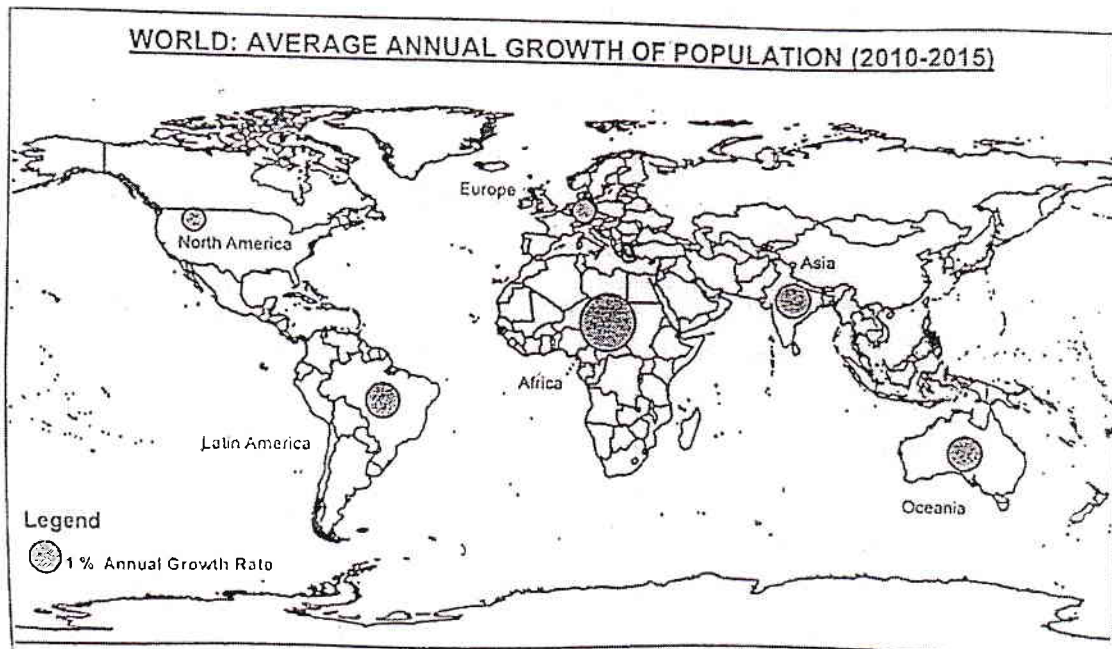
CODE:

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 given map? 01
- 2) Identify the cartographic technique used in the map. 01
- 3) Which continent has the highest value? What could be the reasons for it? 03
- 4) Which continent has the lowest value? What could be the reasons for it? 03
- 5) What is the proportion of annual growth of population in South American and African continent as depicted in the map? 02

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

- 1) The biggest hot desert in the world 01
- 2) The longest river in the world 01
- 3) Longest mountain range in the world 01
- 4) The country having the richest Natural Gas Deposits in the world 01
- 5) World's largest producer of wind energy 01
- 6) An African island with Biodiversity hotspot 01
- 7) An earthquake prone region in South-East Asia 01
- 8) A country with the highest deforestation rate in the world 01
- 9) The country having highest PPP 01
- 10) A smart city in the continent of South America 01

Q:2 Answer any two of the following: 20

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- a) Elaborate on the Abiotic Components of the environment. 10
- b) Discuss on the concept of Ecosystem and identify its types. 10
- c) Write a brief note on Man- Environment relationship. 10

Q:3 Answer any two of the following:

20

- a) What are Natural Resources and how are they classified? Discuss briefly on Nuclear Energy as a form of energy resource. 10
- b) What do you understand by the term Conservation? Explain with special reference to conservation of water. 10
- c) Write a short note on importance of Sustainable Development. 10

Q:4 Answer any two of the following:

20

- a) What is overpopulation. Explain the impact of human pressure on the Global environment 10
- b) Describe the Demographic Transition theory in detail. 10
- c) Identify and elaborate on the factors influencing density of population. 10

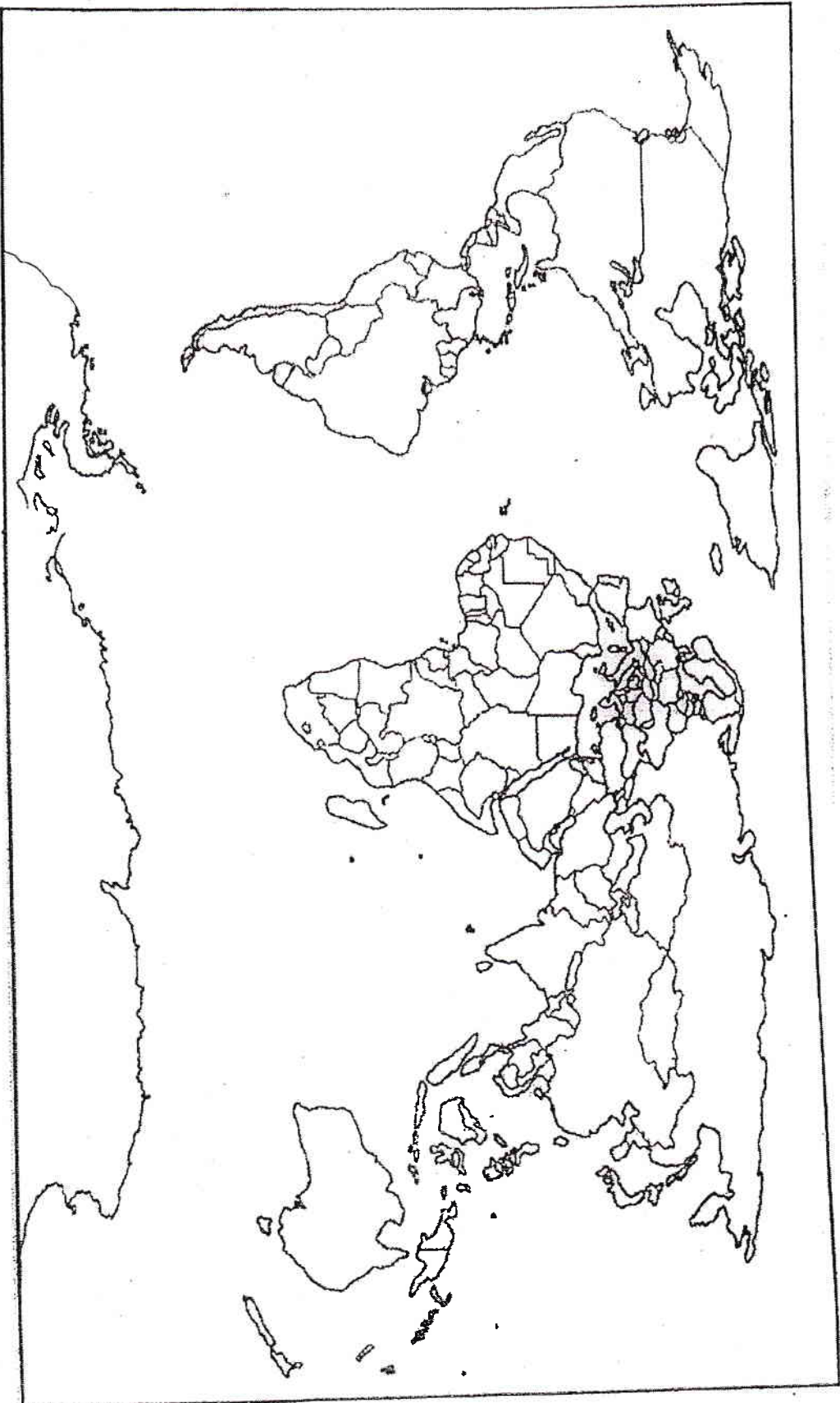
Q:5 Answer any two of the following:

20

- a) Discuss in detail the problems associated with the migration. 10
- b) Explain the Burgess land use model in detail 10
- c) Give an account on "Urban Heat Island". 10

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

STUDENT'S SEAT NUMBER _____ SUPERVISOR'S SIGNATURE _____



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 08)

08

- 1) In India, _____ has highest literacy rate.
 - a) Goa
 - b) Bihar
 - c) Kerala
 - d) Rajasthan
- 2) The rural people in India are mostly engaged in _____.
 - a) Services
 - b) Agriculture
 - c) Industries
 - d) Business
- 3) _____ is the main reason of female foeticide.
 - a) Preference for male child
 - b) Unemployment
 - c) Globalisation
 - d) Pollution
- 4) _____ deafness is caused due to genetic factors.
 - a) Sensory Neural
 - b) Congenital
 - c) Acquired
 - d) Glaucoma
- 5) _____ was formed as a separate state from Andhra Pradesh.
 - a) Chhattisgarh
 - b) Hyderabad
 - c) Telangana
 - d) Tamil Nadu
- 6) Schedule castes are not found in _____.
 - a) Punjab
 - b) Uttar Pradesh
 - c) Mizoram
 - d) Gujarat
- 7) The word _____ means equal respect for all religions.
 - a) Sovereign
 - b) socialist
 - c) Secular
 - d) equality
- 8) Prime Minister is the _____ head in India.
 - a) executive
 - b) legislative
 - c) judicial
 - d) social
- 9) The smaller cities are looked after by the _____.
 - a) Municipal Corporation
 - b) Gram Panchayat
 - c) Municipal Council
 - d) None of the Above
- 10) 73rd Amendment has added _____ Schedule to Indian Constitution.
 - a) 10th
 - b) 11th
 - c) 12th
 - d) 15th

CODE:

Duration: 2: 30 hours

Marks: 75

07

Q:1 B) State whether following statements are True or False (Any 7)

- 1) The tribals are often called as 'Girijans'.
- 2) The founder of Sikhism is Guru Nanak.
- 3) Polio is caused by a virus called poliovirus.
- 4) Max Weber identified three dimensions of social stratification.
- 5) Regionalism means division of a country into small administrative regions.
- 6) India has been passive to combat inequality and social exclusion.
- 7) The Constitution of India is the shortest Constitution of the world.
- 8) There are 12 Schedules in the Indian Constitution.
- 9) The Mayor is elected for a term of five years.
- 10) Criminalization of politics is also a form of political corruption.

Q:2 Attempt any one of the following:-A) Enlist and explain the socio economic problems faced by women in India. 15

OR

B) Examine the types of physical disabilities. 15**Q:3 Attempt any one of the following:-**A) Explain the consequences of caste conflicts in India. 15

OR

B) Define communalism. Describe the causes of communalism. 15**Q:4 Attempt any one of the following:-**A) Comment on the Fundamental duties mentioned in the Indian Constitution. 15

OR

B) Describe the nature of Indian State as "Sovereign", "Secular", and "Socialist"? 15**Q:5 Attempt any one of the following:-**Explain the concept of Panchayat Raj in India. 15

OR

Write Short notes on any three of the following: (Any 03) 15

- a) Multi-Religious Society
- b) Portrayal of Women in Media
- c) Causes of Linguistic Conflicts
- d) The Preamble to the Indian Constitution
- e) Women in Politics.

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

CODE: _____

Duration: 3 hours

Marks: 100

Instructions: -

1. All five questions are compulsory.
2. Each question carries 20 marks and each sub question carries 5 marks.
3. Use of a simple calculator is allowed,
4. Use of a scientific calculator, digital diary or a mobile phone is not allowed.
5. Graph papers will be provided on request.

Q:1 Answer any four of the following:

- a) Mrs. A purchased 550 shares of market price Rs.350/- per share & afterwards sold them with a market price of Rs.400/- per share. She had to pay 0.10% brokerage for both the deals. Find the total purchase, total sale amounts, total gain & rate of return. 5
- b) i) Find the total dividend at 5% on 500 shares of face value Rs.100/- each. 5
ii) Find the face value of a share if shares purchased at a market price of Rs. 200/- each by investing Rs. 5, 50,000/- gave a total dividend of Rs. 2,200/- at 8% rate of dividend.
- c) Find the amount required to purchase Rs. 5/- shares with a total face value of Rs. 17,700/- at a 20 % premium per share. The brokerage is 0.30 % on the market price. 5
- d) Mr.C invested Rs. 70,000/- in a mutual fund when the N.A.V. was Rs. 16.25/- with an entry load of 2%. Find the no. of units rounded off up to 3 decimal places. He sold all the units when the N.A.V. was Rs. 21.44/- with no exit load. Find his gain and the rate of return on investment. 5
- e) Find the average acquisition cost per unit (up to 3 decimal places) of an S.I.P. of Rs. 2,000/- each, invested on the 10th of May, June and July at the N.A.V.'s Rs. 50.100/-, Rs. 52.455/- and Rs. 54.761/- respectively. The entry load was 3%. The number of units to be rounded off up to 3 decimal places. 5

Q.2 Answer any four of the following:

- a) There are 5 girls and 4 boys, from whom a committee of 3 girls and 2 boys is to be formed. Find the number of ways in which this can be done, if 5
(i) There is no restriction.
(ii) A particular boy must be included.
- b) In how many ways can the letters of the word 'APPLE' be arranged such that the vowels should always come together? 5
- c) There are 6 men and 5 ladies. Find the number of ways in which a committee of 4 can be formed from these, if the committee must include at least 3 ladies. 5
- d) The daily requirement of vitamin A & B per person is at least 10 units & 8 units respectively. Food I contain 1 unit of vitamin A & 15 units of vitamin B respectively. Food II contains 4 units of vitamin A & 3 units of vitamin B respectively per serving. The cost of Food I & Food II is Rs.40/- & Rs.50/- per serving respectively, formulate above problem as a L.P.P. to minimize the cost. 5

CODE:

Duration: 3 hours

Marks: 100

- e) Solve the following L.P.P. by graphical method: 5

Maximize $z = 10x + 30y$,

subject to $2x + 3y \leq 6$,

$x + y \leq 3$,

$x \geq 0, y \geq 0$.

Q.3

Answer any four of the following:

- a) Define Measure of Dispersion and write requisites of good Measures of Dispersion? 5
 b) Calculate median for the following distribution: 5

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	110	130	150	180	170	140	120

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

Wages	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of workers	7	10	15	13	11	9	6

- d) The following data gives the Mean and Standard Deviation of wages of the groups of workers. 5

	Group I	Group II
Number of workers	170	200
Mean Wages (Rs.)	300	500
Standard Deviation of Wages (Rs.)	5	7

Find combined mean and also decide, in which group there is greater variation in the distribution of wages?

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

No. of leaves taken in a year	8	10	12	14	16	18
No. of employees	5	9	10	12	9	7

Q.4

Answer any four of the following:

- a) Explain the following terms with examples: 5
 i) Union of two event ii) Intersection of two event iii) Independent Event
 b) A ticket is drawn at random from 28 tickets numbered from 1 to 28. Find the probability that the number on the ticket drawn is (i) divisible by 4, (ii) divisible by 7, (iii) divisible by 4 or 7. 5
 c) One card is drawn from a well shuffled pack of 52 playing cards. Find the probability that the card drawn is i) A Face card, ii) Queen of heart iii) A spade card. 5

CODE:

Duration: 3 hours

Marks: 100

- d) If A and B are any two events of sample space S and $P(\bar{A}) = 0.3$, $P(B) = 0.45$ and $P(A \cap B) = 0.35$, 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 k & then find $E(x)$ & $V(x)$. 5

x	13	14	15	16	17
P(x)	0.3	k	0.2	0.1	0.2

Q:5 Answer any four of the following:

- a) Explain the Minimax Regret Criterion in decision making. 5
- b) From the following payoff table, determine the best possible act by using (i) Maximax criterion, (ii) Laplace criterion. 5

Event → Act ↓	E ₁	E ₂	E ₃	E ₄
A ₁	220	200	140	120
A ₂	140	200	150	80
A ₃	150	170	110	100

- c) From the following payoff table, determine the best possible act by using Expected Monetary Value (EMV) Criterion. 5

States of Nature	Course of action			Probability
	A1	A2	A3	
S1	50	70	80	0.4
S2	60	80	70	0.4
S3	50	20	90	0.2

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

No. of unit demanded	220	240	260
Probability	0.2	0.4	0.4

The product is sold at Rs. 200/- per unit with cost price Rs. 180/- per unit. Prepare a payoff table. The unit not sold is wasted.

- e) Draw a decision tree for the following payoff table & determine the best possible act from it using EMV criterion. 5

Event → Act ↓	S ₁	S ₂	S ₃
A ₁	70	50	60
A ₂	60	100	20
A ₃	60	90	20
Probability	0.3	0.4	0.3

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