

AFM - I
Sem - I
Regular & ATKT

11/11/2022

SEAT NO. _____

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 should form part of answers.

Q:1 A) Match the column (any Ten)

10

Column-A		Column-B	
a)	Freight	i)	Value of Asset in each department
b)	Rent	ii)	Horse power of equipment in each department
c)	Lighting	iii)	Purchase of each department
d)	Power	iv)	Floor area of each department
e)	Depreciation	v)	Number of electric points in each department
f)	Machinery	vi)	Patent
g)	Current Liability	vii)	Tangible Asset
h)	Current Asset	viii)	Shown on Trading Account credit side
i)	Intangible Asset	ix)	Revenue Recognition
j)	Goods Lost by Fire	x)	Carriage Inward
k)	AS-9	xi)	Fictitious Asset
l)	Cost of Purchase	xii)	Stock
		xiii)	Outstanding expenses

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

10

- 1) AS - 2 deals with Valuation of Inventories.
- 2) The purpose of AS 1 is to state which accounting policies should be disclosed in the final account.
- 3) Bad Debt is allocated to respective departments on the basis of Sales of each department.
- 4) Valuation of investment is an example of accounting policy.
- 5) Applicability AS 1 is mandatory.
- 6) Return inwards appearing in Trial Balance are deducted from Sales.
- 7) Wages and salaries appearing in Trial Balance are shown on the debit side of P & L A/C.
- 8) Commission of Salesman are allocated to respective departments on the basis of purchases of each department.
- 9) According to AS 2, inventories should be valued at Retail price.
- 10) Staff Welfare Expenses is allocated to respective departments on the basis turnover of each department.
- 11) In Books of Hire Vendor, Interest receivable from hirer is credited to Hirer Account.
- 12) Hire Purchase Price Less Down Payment = Last Installment

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

20

- a) Trial balance was extracted by Mr. Gaurav from his books of account for the year ended 31-3-2022. You are required to prepare Manufacturing Account, Trading Account and Profit and Loss Account for the year ended 31st March 2022 and Balance Sheet as on that date.

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Trial Balance as on 31-3-2022

Debit Balance	Rs.	Credit Balance	Rs.
Raw Materials:		Capital	7,50,000
Opening Stock	1,20,000	Provision For Doubtful Debts	9,000
Purchases	1,95,000	Bills Payable	15,000
Work-In-Progress (Opening Stock)	60,000	Sundry Creditors	36,900
Finished Goods (Opening Stock)	2,10,000	Sales	6,90,000
Plant And Machinery	3,60,000	Purchase Returns	12,000
Building	1,50,000	Sale Of Scrap	1,500
Factory Taxes	3,600		
Patents	30,000		
Furniture	36,000		
Drawings	21,000		
Wages	73,500		
Advertisement	1,800		
Salary To Factory Staff	9,600		
Salary To Office Staff	10,800		
Sales Return	5,100		
Bank Charges	300		
Motive Power	9,000		
Factory Insurance	4,500		
Discount	2,400		
Bad Debts	2,100		
Office Rent	10,800		
Insurance And Taxes	6,900		
Miscellaneous Expenses	3,300		
Carriage Inward	1,500		
Stationery And Printing	4,200		
Bills Receivable	12,900		
Sundry Debtors	63,000		
Bank Of India	1,03,000		
Cash On Hand	4,100		
	Rs. 15,14,400		Rs. 15,14,400

Adjustments:-

- 1) Value of closing stock in physical possession: Rs.
 - (a) Raw materials 90,000
 - (b) Finished goods 1,95,000
 - (c) Work-in-progress 24,000
- 2) Factory insurance prepaid Rs.900
- 3) Provide interest on capital @ 5%. Interest on drawings is to be ignored.
- 4) Create 5% provision for doubtful debts and 3% discount on sundry creditors.
- 5) Uninsured Raw Materials costing Rs. 5,400 were destroyed by fire.
- 6) Depreciation is to be provided on Building @ 10%, Plant and Machinery @ 5%. 70% of Building is used in the factory.

OR

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b) I) State with reasons whether the following transactions are Capital or Revenue (two marks each) 10

1. Old computer of Rs.22,000 sold for Rs.20,000
2. Depreciation of Rs.5,000 is charged on Machinery
3. Replacement of defective part of a machinery costing Rs.75,000
4. Received interest on Investment Rs.6,000
5. Rs.2,00,000 introduced into the business as capital.

II) Ronak, the proprietor of Gift Specialities presents the following balance as on 31-3-2022. 10

Particulars	Dr. Rs.	Cr. Rs.
Vehicles	1,00,000	-
Machinery	4,00,000	-
Returns	12,000	15,000
Interest on UTI bonds	-	11,000
Bad debts	5,000	-
Sale of scrap	-	3,000
Life insurance premium of Ronak	4,000	-
Rent	44,800	-
Printing and stationery	20,700	-
Discount	2,500	9,500
Insurance	25,500	-
Sales	-	20,37,000
Carriage outward	17,350	-
Power and fuel	71,550	-
Wages	1,39,600	-
Raw materials purchased	16,64,700	-
Withdrawals/Capital	20,000	4,00,000
Opening stock:		
Finished goods	1,09,000	
Raw materials	25,400	
Work in progress	12,900	

Considering following further information, you are required to prepare a Manufacturing Account and Trading Account for the year ended 31-3-2022.

- 1) Stock at cost 31-3-2022 Rs.
- | | |
|------------------|----------|
| Finished goods | 2,00,000 |
| Raw materials | 45,000 |
| Work in progress | 25,000 |

The market value of finished goods as on 31-3-2022 was Rs. 1,80,000.

- 2) Depreciate machinery @ 15% p.a. and vehicles @ 20% p.a.
- 3) General insurance prepaid was Rs. 4,500, while rent outstanding was Rs. 6,500 on 31-3-2022. Rent to be apportioned between factory and office in 3:2.
- 4) Materials costing Rs. 15,000 and finished goods costing Rs. 10,000 was destroyed by fire. The insurance company admitted the claim to the extent of Rs. 7,500 for finished goods and Rs. 10,000 for materials by the balance sheet date.

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

20

- a) From the following particulars, prepare Trading Account, Profit & Loss Account and General Profit & Loss Account of the two departments L and M for the year ended 31st March, 2022.

Particulars	L (Rs.)	M (Rs.)	Total (Rs.)
Opening stock	90000	60000	150000
Purchase	540000	360000	900000
Carriage inward	-	-	12000
Salaries	48000	42000	90000
Sales	720000	480000	1200000
Discount received			9000
General expenses			60000
Rent and Rates			30000
Advertising			60000
Insurance			6000
Discount allowed			9000
Selling and distribution expenses			3000

Additional data:

- General expenses are to be allocated equally.
- Goods transferred from department L to department M were Rs. 18,000.
- The area occupied is L $\frac{3}{5}$ and M $\frac{2}{5}$.
- Insurance is being inconvenient; it is not to be allocated.
- The closing stock of two departments were:
L – Rs. 1,20,000 M – Rs. 90,000.

OR

- b) Prepare a stores Ledger Accounts from the following transactions as per the following 20 methods:
- FIFO
 - Weighted Average.

2022		Particulars		
July	4	Purchased	4000 units	at Rs.4.00 per unit
July	22	Purchased	500 units	at Rs.5.00 per unit
August	6	Issued	2000 units	-
August	13	Purchased	6000 units	at Rs.-6:00 per units
August	16	Issued	4000 units	-
September	5	Issued	1000 units	-
September	17	Purchased	4500 units	at Rs. 5.50 per unit
September	23	Issued	3000 units	-

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

- a) M/s Moon Associates purchased a ~~Plant~~ ^{Car} on hire-purchase system from DK Ltd. On 1st April 2020; for Rs.25,00,000. They paid Rs.5,00,000 on signing the contract and thereafter four half-yearly installments of Rs.5,00,000 each with interest on 30th September and 31st March every year. The DK Ltd. charged interest at 12% per annum, with half-yearly installments. Prepare Car A/c, DK Ltd A/c, Interest A/c and Depreciation A/c after charging depreciation @10% p.a. on original cost in the books of M/s Moon Associates for the year 2020-21 and 2021-22

OR

- b) On 1st April 2021 Johnson & Co. Purchased Car on the Hire-Purchase System from MS & Co.. The price of the Car was Rs. 10,25,000. The payment was to be made as Rs.25, 000 down and the balance by installments of Rs.2,50,000 each with interest @10% p.a. on 30th September and 31st March every year Year ends on 31st march every year. Pass journal entries in the books of MS and Co. for the year 2021-22 and 2022-23.

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

- (a) Answer the following:(Ten marks each) 20
- Write a detailed note on weighted average method of valuation of stock
 - Explain accounting treatments of Hire purchase accounting in the books of Hire-purchaser

OR

- (b) Write short notes:(any four)(Five marks each) 20
- Fundamental accounting assumptions
 - Cost of Inventory as per AS-2
 - Distinguish between Hire purchase agreement and installment purchase agreement
 - Capital Expenditure
 - General Profit & loss Account
 - Manufacturing Account

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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 2-3 sentences: (Any 05)** 10
- | | |
|-------------------------------------|---------------------------------|
| a) Ideation | b) Deliberate Positive Feedback |
| c) Moodle | d) Slanting |
| e) Active listening | f) External Communication |
| g) Lateral Channel of Communication | h) Information Overload |
- B) Match the following:** 05
- | | |
|-----------------------------|-----------------------------------|
| 1 Fingers raised in V-shape | a Ongoing diary |
| 2 Personal Blog | b Friends |
| 2 Gossip Chain | c Mark Zuckerberg |
| 4 Personal Zone | d Signifies victory |
| 5 Facebook | e Type of Grapevine Communication |
- C) Fill in the blanks choosing the best alternative from the ones given below:** 05
- i) _____ works as a vehicle to carry the message.
- | | |
|-------------|-------------|
| a) Feedback | b) Decoding |
| c) Encoding | d) Channel |
- ii) Message arises in the mind of _____.
- | | |
|-------------|--------------|
| a) Receiver | b) Listener |
| c) Sender | d) Pardonner |
- iii) The term 'MOOCs' stands for _____.
- | | |
|--------------------------------|--------------------------------|
| a) Missive Online Open Courses | b) Massive Open Online Courses |
| c) Mini Open Online Courses | d) Myriad Online Open Courses |
- iv) Oral communication lacks _____.
- | | |
|------------|-------------------|
| a) Style | b) Legal validity |
| c) Finesse | d) Spontaneity |
- v) The people with _____ maintain omniscient attitude.
- | | |
|----------------|-----------------|
| a) Closed mind | b) Excited mind |
| c) Open mind | d) Broken mind |
- Q:2** **Write short notes on: (Any four)** 20
- | |
|--|
| a) Emergence of communication as key concept in corporate world. |
| b) Upward Communication |
| c) Significance of Non-verbal Communication |
| d) Feedback |
| e) Office Etiquettes |
| f) Social Media |

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- Q:3** Answer the following questions: (Any two) 20
- Define Cross-cultural barriers. Discuss factors responsible for cross-cultural barriers and suggest ways to overcome them.
 - Define listening skills. Discuss the obstacles to effective listening.
 - What is personal integrity at workplace? Discuss the ways in which one can be ethical at the workplace.
- Q:4** Draft a reply in response to the following advertisement 10
- “Wanted a soft skills trainer for a company based in Mumbai. The applicant should have some background in soft skills training. Apply with resume to: P.O. Box No. 89, N.P. Marg, Mumbai- 400019”.
- Q:5** Draft the following letters: (Any four) 20
- You wish to take admission for a postgraduate course in Marketing Management from a University based in Ireland. Draft the statement of Purpose.
 - Draft a letter of recommendation for your junior who is applying for the post of Human Resource Manager at Ragini Metal Mart Limited.
 - You have received an offer for the post of accountant from Galaxy Pvt. Limited. Draft your letter of acceptance of the job offer.
 - Ms Nisha Tanna wishes to relocate to Nagpur, Maharashtra for personal reasons. Draft her letter of resignation.
 - Draft an appreciation letter for your junior, Mr Bobby Shah for displaying exemplary efforts in increasing the sales of your company’s new brand of mobile.
- Q:6** A) Write a paragraph in about 150 words: (Any one) 05
- Non-violence
 - Inquisitiveness
- B) Read the following situation carefully and answer the questions given below:
- The management of a Dental Care Products factory in Dantnagar, Hyderabad was surprised that though it insisted on a high level of education among its supervisors and junior officers (many of them were “foreign returned”) production was falling and there were many labour problems, while a rival factory which had employed local employees as its supervisors and officers was doing well. An expert in management was consulted and he reported that the chief cause of the poor production and labour problems was that workers could not communicate their problems and often could speak to the officers in Telugu language. Also, they couldn’t understand the instructions given to them in broken Telugu language.
- Identify and explain the problem in the channel of communication in the above shared situation. 03
 - Suggest the ways to solve this problem. 02

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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 is also known as _____ cost.
 - a) Total
 - b) Accounting
 - c) Average
 - d) Alternative
- 3) The market clearing price also known as _____.
 - a) Current price
 - b) Equilibrium price
 - c) Prevailing price
 - d) Constant price
- 4) In case of Normal goods demand curve is _____.
 - a) Upward sloping
 - b) Vertical straight line
 - c) Downward sloping
 - d) Horizontal straight line
- 5) Promotional elasticity of demand is always _____.
 - a) Positive
 - b) Constant
 - c) Negative
 - d) Zero
- 6) The _____ method uses time series data.
 - a) Survey method
 - b) Delphi method
 - c) Expert's opinion
 - d) Trend analysis
- 7) Law of return to scale operate in _____.
 - a) Short run
 - b) Long run
 - c) Short and long run
 - d) All of the above
- 8) Input output iso quant also known as _____.
 - a) Linear iso quant
 - b) Smooth convex iso quant
 - c) Right angle iso quant
 - d) Straight line iso quant
- 9) Labour Economies caused by _____.
 - a) Division of labour
 - b) Financial economies
 - c) Managerial economies
 - d) Better Organization
- 10) The break-even point is not influence by _____.
 - a) Price
 - b) Total fixed cost
 - c) Average variable cost
 - d) Population
- 11) Break-even point analysis compares total revenue with _____.
 - a) Total profit
 - b) Total output
 - c) Total cost
 - d) Price
- 12) In long run _____.
 - a) All costs are variable
 - b) Some costs are fixed
 - c) All costs are fixed
 - d) Some costs are variable

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

10

- 1) Microeconomics deals with individual behavior.
- 2) Total ^{revenue} is per unit value.
- 3) With decrease in demand, supply remaining unchanged, the equilibrium price falls.
- 4) Horizontal demand curve implies perfectly inelastic demand.
- 5) If elasticity of demand equals to one, the marginal revenue is zero.

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- 6) Demand forecasting is done only by large scale industries.
- 7) When TP is falling, the MP of labour becomes negative.
- 8) Economies and diseconomies of scale explain the shape of long-run average cost curve.
- 9) When percentage increase in output greater than percentage increase input is known as decreasing return to scale.
- 10) Learning curve expresses the decline in average cost due to better experience.
- 11) Implicit costs are opportunity cost of the factors owned and used by the entrepreneur.
- 12) Break-even point helps to determine sales and marketing strategies.

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

- A) Discuss 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	6	7
Price (Rs.)	1000	900	800	700	600	500	400

OR

- C) Write an Explanatory note on Marginal concept and Incremental concept. 7
- D) The demand function for a commodity is given as $Q_d = 50 - 0.1P$ and its supply is given as $Q_s = 30 + 0.2P$. Make a schedule of Demand and supply at prices Rs.100, Rs.200, Rs.300, Rs.400. 8

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

- A) State and Explain the law of demand with assumption and appropriate diagram. 7
 - B) Describe the nature of demand curve under Perfect competition and Monopoly market. 8
- OR
- C) What is demand forecasting and explain the significance of demand forecasting? 7
 - D) In a town, the monthly charges of internet access service decreases from Rs.200 to Rs.100 and the total quantity of monthly accounts of all Internet access providers increases from 1,00,000 to 2,00,000. What is the price elasticity of demand? Is demand elastic or inelastic? 8

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

- A) Define isoquant. What are the properties of isoquant? 7
- B) What is Diseconomies of scale? Discuss the various internal and external diseconomies of scale 8

OR

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

Output (Units)	0	1	2	3	4	5	6	7	8
Total production (Units)	0	50	110	180	240	270	282	282	240

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- i) Calculate AP and MP
- 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) Define the long-run average cost curve. Explain derivation of LAC Model with appropriate diagram. 7
- B) Given TFC as 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 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) What is elasticity of demand and explain degrees of price elasticity of demand? 10
- B) Define Cost concept and explain various types of cost? 10

OR

Write Short notes on any four of the following :

20

- a) Cross elasticity of demand
- b) Function and variable
- c) Economies of scale
- d) Types of iso quant
- e) Market demand and Market supply
- f) Learning curve

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

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CommerceCODE: Regular of A.T.K.T
Duration: 3 hours

SEAT NO. _____

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) Grouping of related or similar products under one generic industry to adjust product mix is called as _____
 - a) Relation of industries
 - b) Sister concerns
 - c) Broad banding of industries
 - d) Group Industries
 - 2) _____ is concerned with trade and aids – to - trade
 - a) Marketing
 - b) Commerce
 - c) Business
 - d) Trade
 - 3) WTO replaced GATT as the world's global trading body in _____
 - a) 1995
 - b) 1960
 - c) 1986
 - d) 1965
 - 4) _____ refers to set of laws, regulations, which influence the business organisation and their operations
 - a) Regulatory Environment
 - b) Technological Environment
 - c) Social Environment
 - d) Natural Environment
 - 5) Environment is an _____ of business unit
 - a) Integral
 - b) Sustainable
 - c) Separable
 - d) Isolated
 - 6) _____ report acts as a reference guide during execution of a project
 - a) Committee
 - b) Project
 - c) Legal
 - d) Feasibility
 - 7) The MSMED Act, 2006 gives priority in government purchases to _____ entrepreneur
 - a) Large
 - b) Medium
 - c) Micro and Small
 - d) Local
 - 8) Funding provide by venture capitalist which is a combination of debt and equity is called as _____ funding
 - a) Mezzanine
 - b) First level
 - c) Equity
 - d) Debt
 - 9) Training facility is one of the _____ factors contributing to the growth of entrepreneurship in India.
 - a) Non - economic
 - b) Social
 - c) Political
 - d) Economic
 - 10) _____ strategy involves dropping some of the products, markets and /or functions
 - a) Divestment
 - b) Disinvestment
 - c) De - merger
 - d) Diversification
 - 11) Analysis of working conditions of a business unit is an element of _____ environment
 - a) Internal
 - b) National
 - c) International
 - d) External
 - 12) Mahila Udyam Nidhi is an exclusive scheme for providing equity to women entrepreneurs is instituted by _____
 - a) SIDBI
 - b) RBI
 - c) SBI
 - d) EXIM Bank

CODE:

Duration: 3 hours

Marks: 100

- Q:1** **B) State whether following statements are True or False (Any 10)** 10
- 1) The traditional concept of business places emphasis on customer satisfaction
 - 2) Business broadly involve industry and commerce
 - 3) The SAARC stands for South Asian Association for Research and Commerce
 - 4) Environment factor does not affect business activities
 - 5) The feasibility study has no practical significance
 - 6) Business firm needs to consider the attitude of the State Government before locating a plant in a particular state
 - 7) Entrepreneur create economic and social wealth
 - 8) Only economic factor contribute to the growth of entrepreneur
 - 9) External trade involves trade external to the firm
 - 10) At present there are 17 members of European Union
 - 11) Law and order situation is an important factor to be considered in plant location
 - 12) The primary motives of manager are independence, and innovation
- Q:2** **Answer any two of the following:** 15
- a) How would you reconcile economic objective with social objective?
 - b) Discuss the impact of globalisation on the business and economy
 - c) What is turnaround strategy? Explain the steps in turnaround strategy
- Q:3** **Answer any two of the following:** 15
- a) Explain the feature of business environment
 - b) Discuss the relationship between business and environment
 - c) Describe in brief the components of Internal environment
- Q:4** **Answer any two of the following:** 15
- a) Discuss the concept and steps in business planning process
 - b) Describe the licensing and registration of business unit
 - c) Explain the filling of returns and other documents of a business unit
- Q:5** **Answer any two of the following:** 15
- a) Discuss the importance of entrepreneurship in economic and social development
 - b) Describe in brief the competencies of an entrepreneur
 - c) What are the problems of women entrepreneurs
- Q:6** **Write Short Notes on (Any 4)** 20
- a) Liquidation Strategy
 - b) Divestment Strategy
 - c) Negative implications of WTO
 - d) Types of feasibility report.
 - e) Intrapreneur
 - f) Distinguish between Entrepreneur and Manager

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

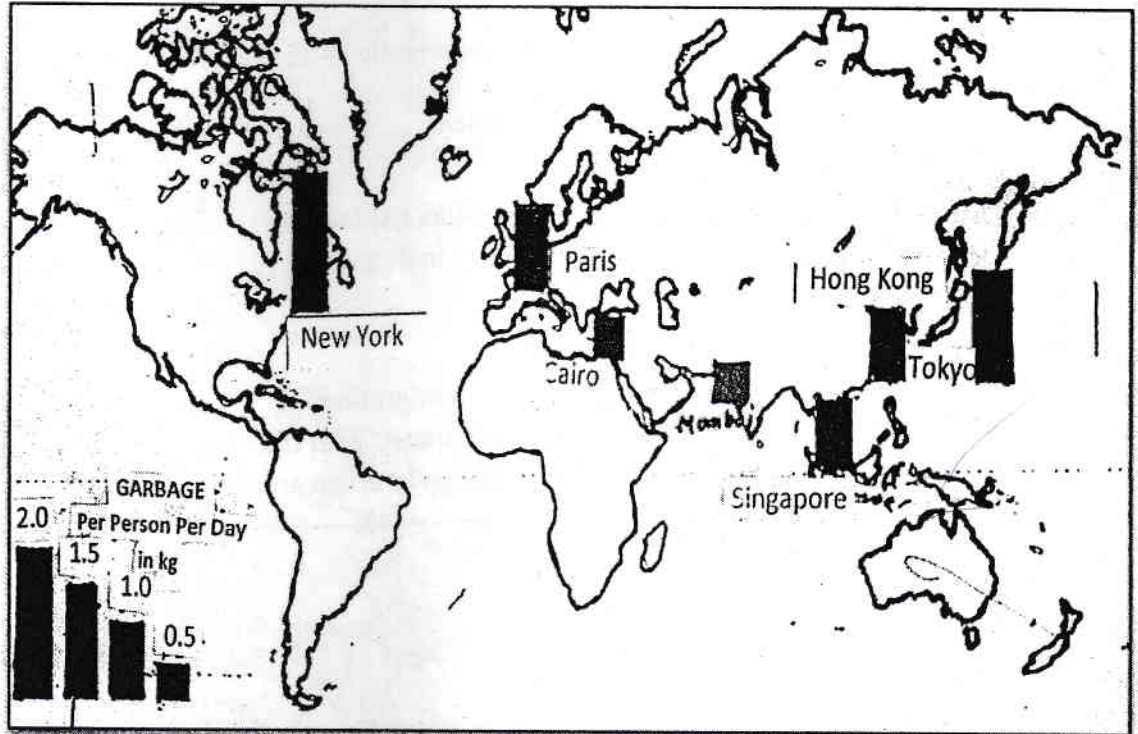
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Duration: 3 hours

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) Identify the technique used in the given world map 01
- 2) What is the theme of the map? 01
- 3) Discuss the scale used in the map 01
- 4) Identify the country having the highest amount of garbage generated and how much is it? 02
- 5) Identify the country having the lowest amount of garbage generated and how much is it? 02
- 6) How much of garbage is generated by Tokyo? 01
- 7) Interpret the given map 02

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

- 1) A major desert in Africa
- 2) A region with thick Tropical forest in Africa
- 3) An earthquake prone region in South-East Asia
- 4) Oldest mountain range in the world
- 5) Country having the largest forest cover in the world
- 6) The country having the richest coal deposits in the world
- 7) Largest producer of Uranium in the world
- 8) A smart city in the continent of South America
- 9) Country having the highest HDI
- 10) Country having the highest life expectancy in the world

SEAT NO. _____

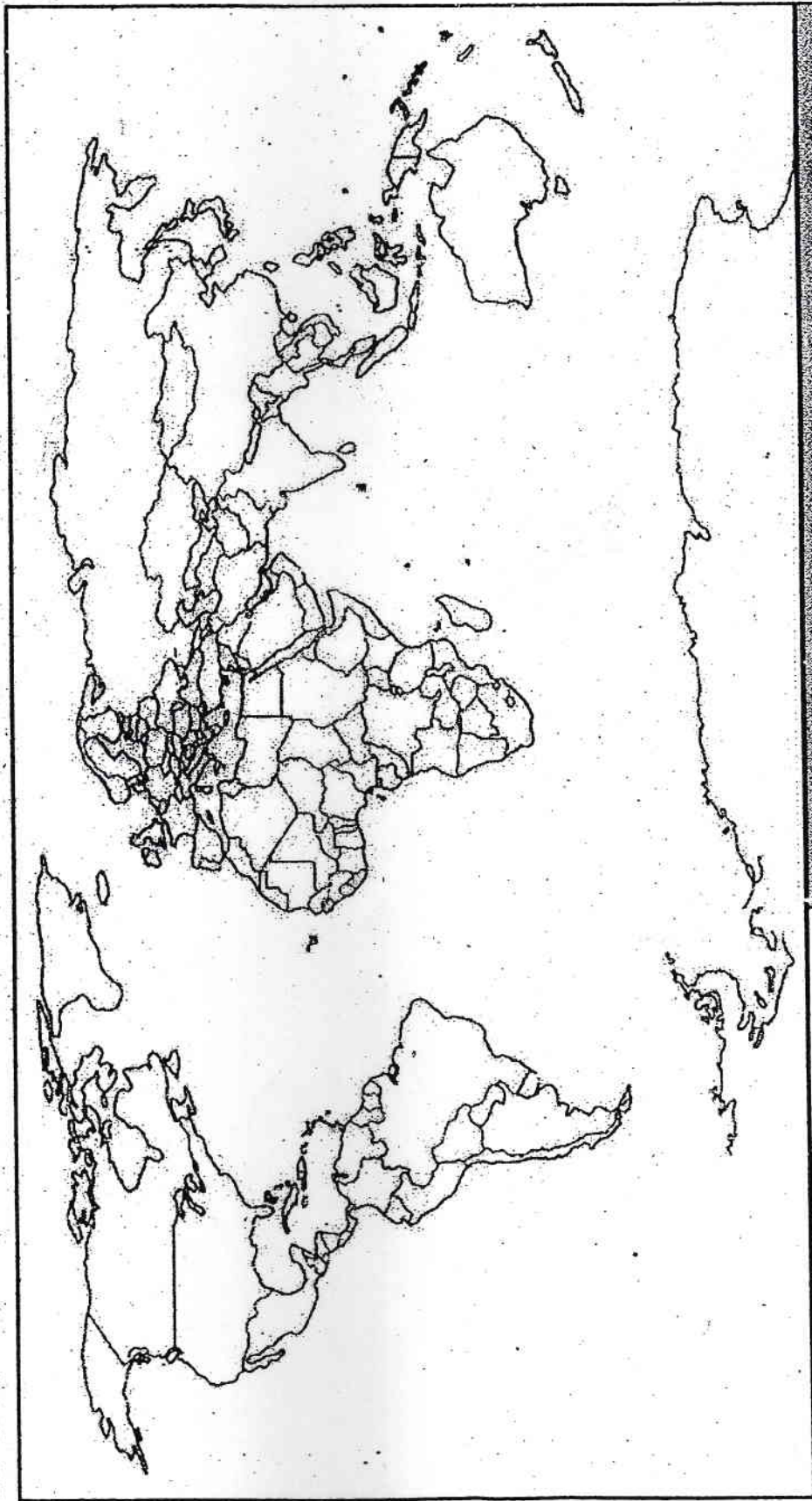
CODE:

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- Q:2 Answer any two of the following:**
- a) Discuss on the Meaning, Nature And Scope of environment. 20
 - b) Elaborate on the functioning of Ecosystem. 10
 - c) Write a brief note on Man- Environment relationship. 10
- Q:3 Answer any two of the following:**
- a) Use of Non-Conventional forms of energy is the solution to the problem of energy crisis. Discuss. 20
 - b) What do you understand by the term Conservation? Explain with special reference to Conservation of Water. 10
 - c) Write a brief note on Sustainable Development. 10
- Q:4 Answer any two of the following:**
- a) Discuss on the causes and impacts of population explosion. 20
 - b) Describe the Demographic Transition Theory in detail. 10
 - c) Write a note on Population policy in India. 10
- Q:5 Answer any two of the following:**
- a) Discuss in detail the problems associated with migration. 20
 - b) Elaborate on the environmental problems associated with unplanned urbanization. 10
 - c) Explain the causes and effects of air degradation in urban areas. 10
- X-----X-----X-----

World Map



Q1
(6)

SEAT NO. OF CANDIDATE :-

SUPERVISOR'S SIGNATURE :-

CODE:

Duration: 2.30 hours

Marks: 75

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 Eight) 08

- 1) Indian society is _____ in nature.
 - a) Tribal b) rural
 - c) Pluralistic
- 2) The Constitution of India has recognized _____ official languages in India.
 - a) 22 b) 44
 - c) 23
- 3) Caste system is a _____ form of stratification.
 - a) Political b) tribal
 - c) Social
- 4) Max Weber identified _____ dimensions of social stratification.
 - a) Two b) three
 - c) Six
- 5) Conflicts amongst the people on the basis of region is known as _____.
 - a) Linguism b) Communalism
 - c) Regionalism
- 6) _____ state was separated from Andhra Pradesh.
 - a) Maharashtra b) Telangana
 - c) Gujarat
- 7) Part Three deals with _____ in Indian Constitution
 - a) Union and its territory b) The Union
 - c) Fundamental rights
- 8) There are _____ parts in the Indian Constitution.
 - a) 21 b) 22
 - c) 23
- 9) _____ is considered as first citizen of the city.
 - a) Mayor b) Prime minister
 - c) President
- 10) _____ is the governing body of urban areas from the following.
 - a) Gram Panchayat b) Panchayat Samiti
 - c) Municipalities

Q:1 B) State whether following statements are True or False (Any Seven) 07

- 1) Urban society in India is heterogenous in nature.
- 2) Assamese is a Dravidian language.
- 3) Eve-teasing is a social violence against women.
- 4) Cataract is related to deafness.
- 5) Caste system promote progress and modernization of the society.
- 6) Regional conflicts replicate national unity amongst the citizens.
- 7) Children's education is fundamental duty of every parents/ guardian as per the Indian Constitution.
- 8) Indian Constitution comprises of 10 fundamental duties.
- 9) Nagar Parishad is also known as the Municipal Council.
- 10) Individual candidate without support of any political party is allowed to participate in elections.

SEAT NO. _____

CODE:

Duration: 2.30 hours

Marks: 75

- Q:2** a) What is caste system? Explain the characteristics of the caste system. **15**
OR
b) Describe gender ratio in India? Explain the factors responsible for low gender ratio in India.
- Q:3** a) Discuss the issue of communalism and its causes in India. **15**
OR
b) Explain the inequalities generated due to caste system in India.
- Q:4** a) Explain the basic features of Indian Constitution. **15**
OR
b) Elucidate the structure of Indian Constitution.
- Q:5** Define Political party? Explain the characteristics of political parties in India. **15**
OR
- Q:5** Write Short Notes on (Any 3) **15**
a) Hindu religion
b) Types of Deafness
c) Linguism in India
d) Communal Harmony
e) 74th amendment of Indian constitution

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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 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.10 with a market price of Rs.360 each & offering 20% dividend & company Y with shares of face value Rs.10 with a market price of Rs.470 each giving 45% dividend. Which company is better to invest? 5
- b) Mr.B invested Rs. 48,960 in equity shares of Rs.100 each at the market price of Rs. 160 each. After receiving 15% dividend, he sold shares at Rs. 180 each. He paid brokerage of 2% on each transaction. Find his percentage return? 5
- c) Mr. C sold 50 of 9% Rs.100/- shares at a 20% premium & used the entire amount to buy 6% Rs.10/- shares at a 25% discount. Find the change in the dividend income. 5
- d) Mr.C invested Rs. 50,000 in a mutual fund when the N.A.V. was Rs. 15.12 with an entry load of 2.25%. Find the no. of units rounded off to 3 decimal places. He sold all the units when the N.A.V. was Rs. 19.44 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. 5,000 each, invested on the 10th of April, May & June 2022 at the N.A.V.'s Rs. 44.100, Rs. 45.455 and Rs. 43.761 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) There are 7 girls and 5 boys, from whom a committee of 4 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 girl must be included.
- b) How many 3-digit numbers can be formed with the help of the digits 1, 2, 3, 7, 8 & 9 if repetition of digits is not allowed? How many of them are even numbers? 5
- c) There are 7 males and 10 females out of whom a committee of 2 males and 3 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

CODE:

Duration: 3 hours

Marks: 100

- d) Food X contains 5 units of vitamin A per gram & 4 units of vitamin B per gram & costs Rs. 4 per gram. Food Y contains 6 units of vitamin A per gram & 10 units of vitamin B per gram & costs Rs.5 per gram. The daily minimum requirement of vitamins A & B are 100 units & 120 units respectively. Formulate the above problem as a L.P.P. to minimize the cost. 5
- e) Solve the following L.P.P. by graphical method: 5
 Maximize $z = 10x + 15y$,
 subject to $x + y \leq 6$,
 $3x + y \leq 12$,
 $x \geq 0, y \geq 0$.

Q:3 Answer any four of the following:

- a) Write short note on measures of dispersion. 5
 b) Calculate median for the following distribution:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	10	30	50	80	70	40	20

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

Wages	30-35	35-40	40-45	45-50	50-55	55-60	60-65
No. of workers	06	09	12	13	10	08	05

- 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	70	50
Mean Wages (Rs.)	110	70
Standard Deviation of Wages (Rs.)	9	4

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	6	8	10	12	14	16
No of employees	5	7	11	15	12	10

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) Two fair dice are tossed, find the probability that the sum of the uppermost face of the dice is: i) less than or equal to 4, ii) Is divisible by 8 5
- c) Four cards are drawn from a well shuffled pack of 52 playing cards. Find the probability getting (i) exactly 1 ace cards, (ii) less than one ace card (ii) at most 1 ace card. 5

CODE:

Duration: 3 hours

Marks: 100

- d) If A and B are any two events of sample space S and $P(\bar{A}) = 0.4$, $P(B) = 0.25$ 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	11	12	13	14	15
P(x)	k	0.3	0.2	0.1	0.2

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 ₁	E ₂	E ₃	E ₄
A ₁	10	90	40	120
A ₂	40	20	151	80
A ₃	50	70	60	100

- c) From the following pay off 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	10	130	19	0.3
S2	14	11	20	0.5
S3	17	15	30	0.2

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

No. of units demanded	120	140	160
Probability	0.1	0.5	0.4

The product is sold at Rs. 100/- per unit with cost price Rs. 80/- per unit. Prepare a payoff table. The unit not sold is wasted.

- e) Draw decision tree for the following pay off table & determine the best possible act from it. 5

Event \ Act	S ₁	S ₂	S ₃
A ₁	40	32	35
A ₂	17	40	42
A ₃	20	22	45
Probability	0.4	0.4	0.2

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