

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)

Column-A		Column-B	
a)	AS 2 defines inventory as	i)	On the credit side of Manufacturing A/c
b)	AS 1	ii)	On the basis of Number of Workers
c)	AS 9	iii)	On the debit side of Profit & Loss A/c
d)	Revenue expenditure	iv)	Stock Reserve
e)	Sale of scrap	v)	buyer
f)	Staff Welfare Expenses	vi)	On the debit side of Manufacturing A/c
g)	unrealized profit	vii)	Debited to Hire Vendor Account
h)	Hirer	viii)	Disclosure of Accounting Policies
i)	Hire Vendor	ix)	Supplies to be consumed in production
j)	Down Payment	x)	no future benefit can be expected
k)	Interest payable by hirer is	xi)	deals with recognition of revenue
l)	Depreciation on Office Furniture	xii)	Seller
		xiii)	Credited to Hire Vendor Account

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

- 1) According to AS 9, Dividend revenue is to be recognised when the shareholder has legal right to receive dividends.
- 2) Accounting Standard in India are issued by Accounting Standard Board of ICAI
- 3) Applicability AS 1 is Optional.
- 4) Weighted Average method of stock valuation reflects the latest purchase price in the closing stock.
- 5) Capital expenditure means an expenditure carrying probable future benefits.
- 6) Purchased a drill machine from Mechanics Co., for 5000 is Capital Expenditure.
- 7) Replacement of defective part of machinery is Capital Expenditure.
- 8) Freight Inward is allocated to respective departments on the basis of sales of each department.
- 9) In Hire Purchase System, initial amount paid by Hirer is called Down Payment
- 10) In Hire Purchase system, Hirer can dispose off goods after payment towards last installment
- 11) Valuation of Goodwill is an example of accounting policy.
- 12) $\text{Weighted Average Cost per unit} = \frac{\text{Total Cost of Inventory on Hand}}{\text{Total Quantity of inventory on Hand}}$

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

- a) From the following trial balance of Mr. Kapoor, you are required to prepare Manufacturing A/c, Trading A/c and Profit & Loss A/c for the year ending 31st March, 2022 and Balance Sheet as on that date after considering the adjustments:

Debit balances	Rs.	Credit balances	Rs.
Opening Stock:		Sales	11,10,000
Raw Materials	44,000	Returns(Raw materials)	1,500
Work in Progress	25,000	Capital	2,55,000
Finished Goods	75,000	Bills payable	16,500
Purchases of Raw materials	6,30,000	Sundry creditors	1,20,000
Returns	3,000	Dividend receive	300
Bank charges	210	Bank of Madura	60,000
Cash in hand	3,000	Sale Of Scrap	1,500
Wages	15,000		
Plant and machinery	1,35,000		
Royalty	15,000		
Office building	90,000		
Delivery Van	45,000		
Interest on bank loan	9,000		
Office salaries	60,000		
Furniture	30,000		
Insurance	4,800		
Bills receivable	30,000		
Advertisement	11,400		
Stationery and printing	15,000		
Carriage inward	4,590		
Travelling expenses	7,500		
Debtors	3,00,000		
Bad debts	4,500		
Loose tools	7,800		
	Rs. 15,64,800		Rs. 15,64,800

Adjustments:

- Closing stock : Raw Materials Rs.30,000; Work in Progress Rs.5,000; Finished Goods Rs.33,000
- Uninsured Finished Goods worth Rs. 1, 80,000 destroyed by fire.
- Carriage inward includes carriage outward of Rs.500.
- Insurance premium is related to the insurance on factory premise and office premise in the proportion of 3:2.
- Finished Goods supplied to the proprietor Rs. 6,900 were not recorded in the books of account.
- Depreciation is to be provided on Furniture @ 10%, Delivery Van @ 15% and Plant and Machinery @ 5% and on building @10%. 30% of Furniture and 80% of building are used for factory.

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OR

- b..i) State with reasons whether following are Capital or Revenue.(Two marks each) 10
1. Purchase Machinery of Rs.5, 00,000 and spent Rs.20, 000 for its installation.
 2. Sold goods for Rs.2,00,000
 3. Salary paid Rs.45,000
 4. Sold Furniture costing Rs.30,000 for Rs.25,000
 5. Spent Rs.25,000 for replacing old tyres by new tyres

- b..ii) On 31st March, 2022 the following balance appeared in the books of Miss Rajani. 10

Particular	Rs.
Purchases Less Returns	2,35,000
Carriage Inward	16,400
Sales Less Returns	6,55,300
Duty And Clearing Charges	11,200
Advertisement	21,000
Insurance on office building	600
Opening Balances	
Raw Material	25,000
Work-In-Progress	22,000
Finished Goods	51,300
Bank Charges	300
Salaries	22,000
Bad Debts	1,700
Power	39,000
Gas And Water	14,000
Carriage Outward	3,000
Factory Rent	18,000
Rates And Taxes	3,300
Printing And Stationery	15,000
Insurance Of Plant	2,400
Wage	75,000

From the above balance and under mentioned information, prepare Manufacturing A/c and Trading A/c for the year ending 31st March, 2022.

1) Closing balances	(Rs.)
Raw Materials	11,000
Work-in-Progress	16,000
Finished Goods	54,000

- 2) Printing And Stationery includes Rs.5,000 spent for stationery used in the factory.
- 3) Outstanding expenses as on 31st March, 2022 were –

Salaries Rs. 3,000	Rates and Taxes Rs. 300
Wages Rs. 3,500	Power Rs. 4,000
- 4) Provide depreciation on Plant Rs. 4,000 and on Office Furniture Rs. 1,000.
- 5) Insurance prepaid on 31st March, 2022 Rs. 300.

Q:3

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

- a) From the following figures for the year ended 31st March 2022, prepare accounts to disclose total profit and loss of two departments P and Q.

Particulars		Rs.
Opening stock:	P	80,400
	Q	67,200
Purchase:	P	4,41,600
	Q	4,28,400
Sales:	P	6,78,000
	Q	5,40,000
Sales return:	P	18,000
	Q	12,000
Carriage inwards		17,400
Salaries:	P	48,000
	Q	42,000
General Salaries		45,000
Rents and Rates		32,400
Advertising		48,600
Insurance (for building)		10,800
General Expenses		27,000
Discount allowed		16,200
Discount received		8,700

Additional information:

- a) General salaries and general expenses are to be allocated equally.
 b) The area occupied is in the ratio of 5:4.
 c) The closing stock of two departments were:
 P Rs. 1,23,000 and
 Q Rs. 1,05,600

OR

- b) Find the value of closing stock, under FIFO and Weighted Average price Method, for the 20 month of August 2022 from the following information:

1	Opening Stock	1400 units	@ Rs 5.00
6	Sales	600 units	
10	Purchased	1800 units	@ Rs. 6.00
12	Sales	1000 units	
14	sales	200 units	
17	Purchased	1600 units	@ Rs.6.50
20	Sales	800 units	
24	Purchased	2200 units	@ Rs. 7.00
28	Sales	1200 units	

CODE:**Duration: 3 hours****Marks: 100****Q:4 Answer (a) or (b) of the following:****20**

- a) M/s Star Associates purchased a car on hire-purchase system from Premier Ltd. On 1st April 2020; for Rs.11, 30,000. He paid Rs.1,30, 000 on signing the contract and thereafter four half-yearly installments of Rs.2,50,000 each with interest on 30th September and 31st March every year. The premier Ltd. charged interest @ 12% per annum, with half-yearly installments.

Prepare Car A/c, Premier Ltd A/c, Interest A/c and Depreciation A/c in the books of M/s Star Associates for the year 2020-21 and 2021-22

OR

- b) On 1st April 2021 SK Ltd Purchased Wagons on the Hire-Purchase System from PP and Co. The price of the Wagons was Rs. 25,000. The payment was to be made as Rs.5, 000 down and the balance four half-yearly installments of Rs.5, 000 each with interest @12% per annum on 30th September and 31st March every year. Year ends on 31st march every year.

Pass journal entries in the books of PP and Co. for the year 2021-22 and 2022-23.

Q:5 Answer (a) or (b) of the following:**20**

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

- i) Explain in detail FIFO Method of Valuation of Inventory.
ii) Write a detailed note Manufacturing Final Account.

OR

- (b) Write short notes:(any four)(Five marks each)

- i) Objectives of Inventory Valuation
ii) Features of AS-1
iii) Capital Expenditure
iv) Hire Purchase Agreement
v) Provision for Discount on Debtors
vi) Meaning of Revenue as per AS-9

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Sem-I
A.T.K.T
B.C

13/03/2023

SEAT NO. _____

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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 2-3 sentences: (Any 05)** 10
- | | |
|------------------------|-----------------------------|
| a) Decoding | b) Channel |
| c) E-mail | d) Horizontal Communication |
| e) Full block form | f) Silence |
| g) Superiority Complex | h) Consensus |
- B) Match the following:** 05
- | | |
|-------------------------|---------------------------------|
| 1 Nail Biting | a Ethics |
| 2 Surrogate Advertising | b Jack Dorsey |
| 2 Signature | c Anxiety |
| 4 Personal Integrity | d Offers authenticity to letter |
| 5 Twitter | e Unethical media practices |
- C) Fill in the blanks choosing the best alternative from the ones given below:** 05
- i) The response given by receiver of the message is called _____.
- | | |
|-------------|-------------|
| a) Channel | b) Decoding |
| c) Encoding | d) Feedback |
- ii) The Latin word _____ means to make common.
- | | |
|------------|----------------|
| a) Commons | b) Communicare |
| c) Cullins | d) Collins |
- iii) A blog consisting videos is called as _____.
- | | |
|----------|------------|
| a) Bhlog | b) Moodle |
| c) Vlog | d) Linklog |
- iv) In _____ employees are given the freedom to enter the cabin of the superior and talk without hesitation.
- | | |
|----------------------|----------------------|
| a) Suggestion Scheme | b) Open-door policy |
| c) Gossip chain | d) Open house scheme |
- v) _____ is the fastest means of communication.
- | | |
|---------------------------|-----------------------------|
| a) Downward Communication | b) Halo effect |
| c) Grapevine | d) Horizontal Communication |
- Q:2** **Write short notes on: (Any four)** 20
- Process of Communication
 - Postures
 - Business Meals Etiquettes
 - Moodle
 - Advantages of Oral Communication
 - Disadvantages of social media

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Marks: 100

Q:3

Answer the following questions: (Any two)

- Explain various types of psychological barriers to communication. Suggest ways to overcome them.
- Differentiate between hearing and listening. Explain the various tips for cultivating good listening skills.
- Discuss the ethics that should govern the user of the computer and internet.

Q:4

Draft a reply in response to the following advertisement

"Wanted experienced secretary for a company based in Navi Mumbai. The applicant should have some background in secretarial practices. Apply with resume to: P.O. Box No. 65, Navi Mumbai, Shoe House Ltd., Plot No. 101-B, Gati House, Sector 98, Kharghar, Navi Mumbai- 410210".

Q:5

Draft the following letters: (Any four)

- You wish to take admission for a postgraduate course in Human Resource Development from an American University. Draft the statement of Purpose.
- Draft a letter of recommendation for your junior who is applying for the post of sales manager at Fancy Textiles Limited, New Delhi..
- You have received an offer for the post of accountant from Mayur Pvt. Limited, Jaunpur. Draft your letter of acceptance of the job offer.
- Ms Alia Khot wishes to change her residence to Bhubaneswar, Odisha as she has secured a post of Senior Accountant in Bata Limited. Draft her letter of resignation.
- Draft a letter of appreciation for your junior, Mr Mahendra Chaubey for his sustained commitment and discipline towards the organisation.

Q:6

A) Write a paragraph in about 150 words: (Any one)

- Wastage of water
- Pandemic

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

Ms Chanchal visited an organisation as part of a field trip. As she requires to walk a certain distance before reaching the organisation, she required to park her car in a nearby space. She came across signboard which read, "Fine for Parking" and she gladly parked car and went about doing her job. However, upon returning, to her disappointment, she found that her car got towed and she was charged hefty fine of Rs. 1000/-.

- Identify and explain the problem in the above situation.
- How to overcome such problems?

2023

B. Eco. I, Sem I, March 2023, ATKT, 11.30 to 2.30 pm

11/03/2023

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.

- 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) _____ is the total expenditure made by the firm to produce a given quantity of output.
a) Total cost b) Total product
c) Average cost d) Total revenue
 - 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) Under perfect competition the firm faces a _____ demand curve.
a) Horizontal b) Downward sloping
c) vertical d) 'kinked
 - 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) Input output iso quant concept given by _____.
a) W.W.Lientief b) Alfred Marshall
c) K.J.Arrow d) Prof Fluck
 - 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 minimum
 - 10) Fixed cost is regarded as _____ cost.
a) Avoidable b) Variable
c) Unavoidable d) controllable
 - 11) Break –even point analysis is also refer as _____.
a) Cost –volume analysis b) Total output
c) Managerial decision technique d) Profit maximizing device
 - 12) Before break-even point firm incurred in loss because _____.
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) An exogenous variable is within an economic model.
 - 2) Market management is crucial for any business economics.
 - 3) Opportunity cost arise because resources are unlimited.
 - 4) Potatoes are Veblen goods.
 - 5) If elasticity of demand equals to one, the marginal revenue is positive.

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Marks: 100

- 6) Law of demand given by E.H.Chamberlin.
- 7) Linear iso-quant is also known as straight line iso quant.
- 8) Two iso quants can intersect each other.
- 9) When percentage increase in output lesser than percentage increase input is known as decreasing return to scale
- 10) Learning curve explains 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 $Q_{dx} = 65000 - 10,000 P_x$ describes demand for sports shoes. Complete the following table $P_x = 9, 8, 7, 6, 5, 4, 3, 2$. 8

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

- A) Explain different degrees of income elasticity along with diagram. 7
- B) Describe the nature of demand curve under Monopolistic competition 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 properties of iso quant along with appropriate diagram. 7
- B) What is Diseconomies of scale? Discuss the various internal and external diseconomies of scale 8

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

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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) Derive the long run average cost curve along 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 demand forecasting? List out survey method explain any two in detail. 10
- B) Define Cost concept and explain various types of cost? 10

OR

Write Short notes on any four of the following : 20

- a) Geometric method of demand elasticity
- 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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Com. 01 -
ATKT - March 2023
09/03/2023

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.

- Q:1 A) Choose the correct answer from the options given below (Any 10) 10
- 1) _____ concept of business is concerned with customer satisfaction.
a) Modern b) Traditional
c) Internal d) External
 - 2) Objectives of business should be _____.
a) Rigid b) Flexible
c) Confusing d) Conservative
 - 3) _____ is the most important economic objective of business unit.
a) Service b) Profit
c) Charging the right place d) Common Seal
 - 4) _____ environment include policies of the Government
a) Sociographic b) Demographic
c) Economic d) Cultural
 - 5) Decision on location is an important element of _____.
a) Setting up a business unit b) Market research
c) Manufacturing process d) Production process
 - 6) _____ designs services for SSI's
a) TCO b) NSIC
c) SAPTA d) NAFTA
 - 7) Under MSMED Act, 2006, the enterprise are classified as enterprises micro enterprises if the limits for investment in equipment in the services sector is upto Rs. _____.
a) 10 lakhs b) 2 crore
c) 5 crore d) 8 crore
 - 8) _____ acts as a reference guide during the execution of the project.
a) Legal Report b) Feasibility Report
c) Project Report d) Planning Report
 - 9) _____ Entrepreneur's key strengths are dedication and motivation.
a) Specialist b) Opportunist
c) Adventurer d) Asset Allocator
 - 10) Small industries Development Organisation (SIDO) was established in _____.
a) 1947 b) 1954
c) 1964 d) 1968
 - 11) _____ schemes specially meant for women entrepreneurs
a) DBK b) TREAD
c) MDA d) SAFTA
 - 12) _____ is one of the qualities of entrepreneurs.
a) Laziness b) Creativity
c) Impatience d) Impulsive
- Q:1 B) State whether following statements are True or False (Any 10) 10
- 1) The modern concept of business is concerned only with Profits.
 - 2) Commerce is concerned with trade and aids-to-trade.
 - 3) GATT replaced WTO in 1995.
 - 4) Political stability brings consistency and firmness in government policies

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- 5) Cultural Environment does not influence demand for goods and services
- 6) Diversification strategy helps to minimize business risks.
- 7) Downsizing refers to retrenchment of surplus manpower of the business.
- 8) Only economic factors contribute to the growth of entrepreneurs.
- 9) A project report is a written document containing complete information on the completed projects.
- 10) Provident Fund registration is not compulsory if the size of workforce is 20 or more.
- 11) NIESBUD is concerned with marketing of goods of small business units.
- 12) Intrapreneur is an entrepreneur within an existing organization.

Q:2 Answer any two of the following:

- a) What is Business? Explain its features.
- b) Discuss the steps involved in setting Business Objectives.
- c) Explain restructuring strategies.

15

Q:3 Answer any two of the following:

- a) State the importance of analyzing business environment.
- b) What is WTO? Explain its implications on developing nations.
- c) What is trading blocs? Explain the impact of trading blocs.

15

Q:4 Answer any two of the following:

- a) Discuss the concept and importance of Project Planning.
- b) What is Feasibility study. Explain the types of Feasibility Study?
- c) Describe the role of Government in promotion of business unit

15

Q:5 Answer any two of the following:

- a) Describe the factors responsible for the growth of entrepreneurship in India
- b) Define Entrepreneurs. Explain the various types of Entrepreneurs.
- c) Discuss the Promotional incentives offered to Women Entrepreneurs

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Q:6 Write Short Notes on (Any 4)

- a) Functions of business.
- b) Stability strategy
- c) European Union
- d) Project Report
- e) Distinguish between Entrepreneur and Intrapreneur.
- f) Major Activities of Indian Institute of Entrepreneurship

20

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SEAT NO. _____

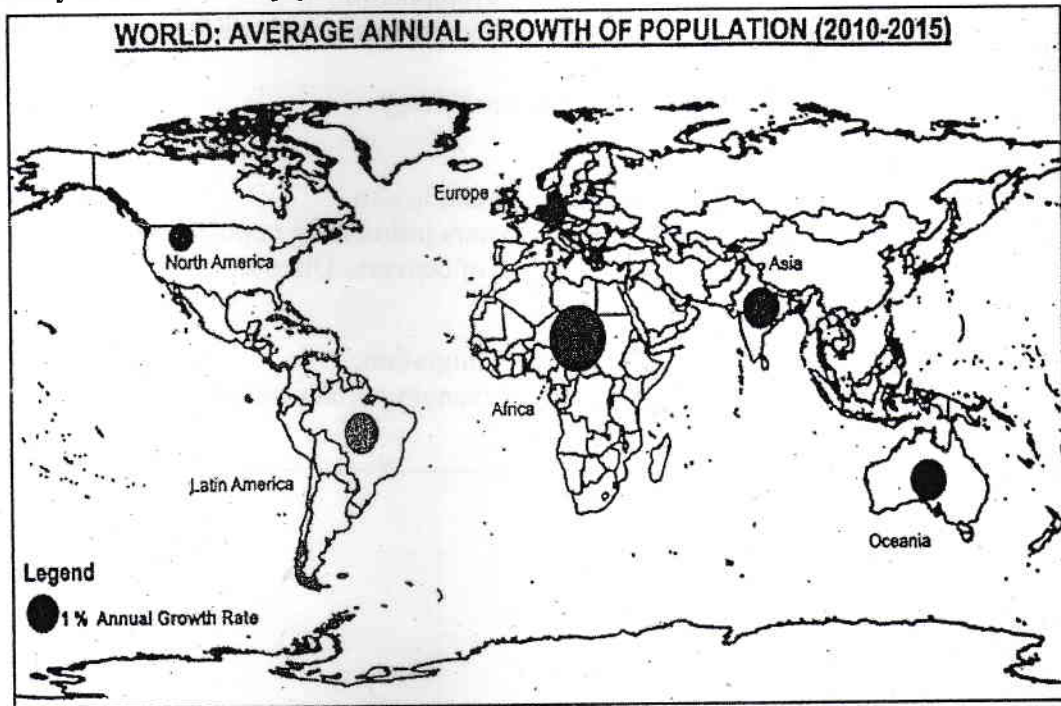
CODE: _____

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) Identify the technique used in the given world map 1
- 2) What is the theme of the map? 1
- 3) What is the average growth rate of population for Oceania and South America? 2
- 4) Identify the continent having the highest growth rate of population and give reason for your answer. 3
- 5) Identify the continent having the lowest growth rate of population and give reason for your answer. 3

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

- 1) The biggest hot desert in the world
- 2) A major mountain range in North America
- 3) An earthquake prone country in the Southern hemisphere
- 4) Country having the highest deforestation rate in the world
- 5) World's largest producer of wind energy
- 6) The country having the richest petroleum deposits in the world
- 7) A smart city in South East Asia
- 8) The country having highest PPP
- 9) The continent having the highest amount of Acid Rains
- 10) The country using largely Nuclear energy for commercial development of electricity

CODE:

Duration: 3 hours

Marks: 100

- Q:2 Answer any two of the following:** 20
- a) Elaborate on the Cultural Component of the Environment. 10
 - b) Discuss on the concept of Ecosystem and Identify its types. 10
 - c) Write a brief note on the Structure and Functioning of the Ecosystem 10
- Q:3 Answer any two of the following:** 20
- a) Elaborate on the importance of Sustainable Development. 10
 - b) Identify the causes of Forests Degradation. Suggest some methods for Conservation of the same. 10
 - c) Write a brief note on Solar Energy and Nuclear Energy. 10
- Q:4 Answer any two of the following:** 20
- a) Elaborate on the relationship between poverty and health. 10
 - b) Explain the geographic, historic and social factors influencing population distribution. 10
 - c) Why is population explosion in India a matter of concern. Discuss. 10
- Q:5 Answer any two of the following:** 20
- a) What is migration? Explain the pull factors of migration. 10
 - b) What is urbanisation? Explain the concept of changing urban landuse. 10
 - c) Explain Hoyt's landuse model in detail. 10

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

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)

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- 1) The holy book of Sikhs is _____.
a) Bible
b) Guru Granth Sahib
c) Koran
- 2) _____ are the followers of lord Mahavira.
a) Sikhs
b) Buddhists
c) Jains
- 3) Raja Ram Mohan Roy opposed the practice of _____.
a) Polygamy
b) Child labour
c) Sati
- 4) _____ is also known as far sightedness.
a) Hypermetropia
b) Polio
c) Glaucoma
- 5) Caste system was prominently found in _____ religion.
a) Hindu
b) Jain
c) Islam
- 6) _____ water disputes involve the states of Karnataka and Tamil Nadu.
a) Krishna
b) Indus
c) Cauvery
- 7) _____ means equal treatment to all religion.
a) Socialist
b) Secular
c) Republic
- 8) National emergency can be declared under _____ article as per Indian constitution.
a) 352
b) 353
c) 356
- 9) National political parties should be recognized in _____ or more states.
a) Four
b) Eight
c) Six
- 10) _____ is the head of Gram Panchayat.
a) President
b) Minister
c) Sarpanch

CODE:

Duration: 2.30 hours

Marks: 75

- Q:1** **B) State whether following statements are True or False (Any Seven)** **07**
- 1) Indian society is pluralistic in nature.
 - 2) India has no official religion.
 - 3) Kerala has highest sex ratio in India.
 - 4) Max Weber identified two dimensions of social stratification.
 - 5) Regionalism refers to the attachment towards one religion.
 - 6) Preamble comprises introduction of the Constitution.
 - 7) Regionalism causes inter – state confrontations.
 - 8) Indian constitution assures single citizenship.
 - 9) Surveying in the obligatory function of Municipal corporation.
 - 10) India has multi-political party system.
- Q:2** a) Write a detailed note on the status of women in India. **15**
- OR**
- b) Explain measures to be taken to solve the socio - economic problem of women in India.
- Q:3** a) What is communalism? How the issue of communalism can be resolved? **15**
- OR**
- b) Write a detailed note on casteism and Linguism in India.
- Q:4** a) Discuss in detail the importance and criticisms of the fundamental duties of Indian Constitution. **15**
- OR**
- b) Describe the preamble in detail.
- Q:5** Elaborate the concept of the urban local government. **15**
- OR**
- Write Short Notes on (Any 3)** **15**
- a) Characteristics of urban areas
 - b) Positive role of mass media towards women.
 - c) Consequences of casteism
 - d) Schedules of Indian constitution
 - e) Role of women in politics

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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) Mrs. A purchased 650 shares of market price Rs.450 per share & afterwards sold them with a market price of Rs.550 per share. She had to pay 0.2% 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 10% on 340 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. 180 each by investing Rs. 4,41,000 gave a total dividend of Rs. 1470 at 6% rate of dividend.
- c) Mr. B invested Rs. 15,000 in HDFC mutual fund at an N.A.V. of Rs. 32.72 and an entry load of 2.25% of the N.A.V. on 5th May 2021. How many units correct up to 3 decimal places did the person get? What was the value of those units on that day? 5
- d) Mr.C invested Rs. 94,070 in a mutual fund when the N.A.V. was Rs. 460 with an entry load of 2.25% After receiving a dividend @ Rs. 5 per unit, he waited for a month and redeemed all the units and paid an exit load of 0.5 % the total gain was Rs. 1,654 what was N.A.V. at which he redeemed the unit? 5
- e) Find the average acquisition cost per unit (up to 2 decimal places) of an S.I.P. of Rs. 3,000 each, invested on 10th of March, April, May, June & July 2022 at the N.A.V. Rs. 44.10, Rs. 45.45, Rs. 43.76, Rs.42.35 & Rs.43.75 respectively. . The number of units to be rounded off to 3 decimal places. 5

Q:2 Answer any four of the following:

- a) Six boys and four girls have to stand in a row for a photograph randomly, Find the number of arrangements in which 5
 i) All girls are together ii) No two girls are together.
- b) In how many ways can the letters of the word 'LEADING' be arranged such that the vowels should always come together? 5
- c) There are 5 professors and 10 students out of whom a committee of 2 professors and 3 students is to be formed. Find the number of ways in which the committee can be formed such that a particular student is excluded. 5
- d) A company manufactures two types of gift articles P and Q. Each article has to go through three machines A, B and C. The maximum hours available on machine A, B and C are 12 and 8 and 10 respectively. Manufacturing a unit of X requires 3 hours on machine A, 2 hours on machine B and 1 hour on machine C. Manufacturing a unit of Y requires 1 hour on machine A, 2 hours on machine B and 3 hours on machine C. The profit per unit of P and Q is of Rs. 600 and Rs. 700 respectively. Formulate the above problem as a Linear Programming Problem to maximize the profit. 5

CODE:

Duration: 3 hours

Marks: 100

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

$$\text{Minimize } Z = 4x + 3y,$$

$$\text{subject to } 5x + y \geq 10,$$

$$x + y \geq 6,$$

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

Q:3

Answer any four of the following:

- a) Write short note on Measures of central tendency.

- b) Calculate Arithmetic mean for the following distribution:

Class Interval	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	10	30	35	40	37	25	12

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

Class Interval	5-10	10-15	15-20	20-25	25-30	30-35	35-40
frequency	12	15	17	18	12	10	8

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

	Group I	Group II
Number of workers	40	25
Mean Wages (Rs.)	250	300
Standard Deviation of Wages (Rs.)	3	4

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

- e) Calculate Quartile Deviation for the following data:

Class Interval	100-110	110-120	120-130	130-140	140-150	150-160
Frequency	10	30	60	50	40	20

Q:4

Answer any four of the following:

- a) Define the following terms with examples:

i) Mutually Exclusive events, (ii) Exhaustive events

- b) From a well shuffled pack of cards, two cards are drawn one after another without replacements find the probability that

i) One of them is an Ace and the other is Jack

ii) Both the cards are Ace cards.

- c) A problem on mathematics is given to 2 students X and Y who attempt it independently. Their chances of solving the problem are 0.3 and 0.65 respectively. i) What is the probability that the problem is solved? ii) What is the probability that the problem is solved by only one?

- d) If A and B are any two events of sample space S and $P(A) = 0.5$, $P(B) = 0.4$ and $P(A \cap B) = 0.35$, then find i) $P(\bar{A})$, ii) $P(B/A)$, iii) $P(A \cup B)$

- e) For the following probability distribution, find the value of k & then find $E(x)$ & $V(x)$.

x	2	4	6	8	10
P(x)	0.1	0.3	0.2	k	0.1

CODE:

Duration: 3 hours

Marks: 100

Q:5 Answer any four of the following:

- a) Explain Expected Opportunity Loss criteria. 5
 b) From the following pay off table, determine the best possible act by using Minimax Regret criterion. 5

States Act	S ₁	S ₂	S ₂
A ₁	65	90	90
A ₂	85	75	80
A ₃	50	70	60

- 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	150	130	190	0.5
S2	140	110	180	0.3
S3	170	150	120	0.2

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

No. of unit demanded	20	40	60
Probability	0.2	0.5	0.3

The product is sold at Rs. 13/- per unit with cost price Rs. 8/- 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

Course of action	States of Nature		
	S1	S2	S3
A1	30	32	27
A2	25	40	33
A3	21	38	35
Probability	0.25	0.45	0.3

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