

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
- 1) AS 2 defines inventory as
    - a) Fictitious Assets
    - b) Current Assets
    - c) Assets held for sale in business
    - d) Fixed Assets
  - 2) Stock taking for the year ended 31st March 2020 was made on 6th April 2020; Sales Return during the period from 1st April 2020 to 6th April 2020 should be
    - a) added to the value of stock
    - b) deducted from value of stock
    - c) added to cost of purchase
    - d) deducted from cost of purchase
  - 3) AS 9 does not deal with revenue arising from
    - a) Dividend recognised
    - b) Sale of goods
    - c) Interest recognised
    - d) Insurance Contract
  - 4) Which one of these is a capital expenditure ?
    - a) Purchase of a goods
    - b) Cost of repair
    - c) Wages paid for installation of machinery
    - d) Rent of a factory
  - 5) Return outwards appearing in Trial Balance are deducted from
    - a) Sales
    - b) Purchases
    - c) Return inward
    - d) Carriage outwards
  - 6) Cash discount on purchase of machinery received appearing in the Trial balance are shown
    - a) On the debit side of P & L A/c
    - b) On the credit side of P & L A/c
    - c) On the assets side of the balance sheet
    - d) On the liabilities side of the balance sheet
  - 7) Depreciation is allocated to respective departments on the basis of .....of each department.
    - a) Asset Value
    - b) Area
    - c) No. of Light Point
    - d) Sales
  - 8) Interest on loan is recorded in
    - a) Departmental Balance Sheet
    - b) Departmental P&L Account
    - c) Departmental Trading Account
    - d) General P & L Account
  - 9) Find the loading which is 20% of the invoice value of the goods if cost price of the goods is Rs. 80,000
    - a) Rs. 8,000
    - b) Rs. 12,000
    - c) Rs. 20,000
    - d) RS. 10,000
  - 10) In Hire Purchase system, Seller is called as \_\_\_\_\_
    - a) Buyer
    - b) Customer
    - c) Hire Vendor
    - d) Debtor
  - 11) In Hire Purchase system, Hirer can dispose off goods after payment of \_\_\_\_\_
    - a) Down Payment
    - b) First Instalment
    - c) Last Instalment
    - d) Possession
  - 12) In the Books of Hire Vendor, Interest received from hirer is \_\_\_\_\_
    - a) Debited to Hirer Account
    - b) Credited to Hirer Account
    - c) Debited to Assets Account
    - d) Credited to Assets Account

- Q:1 B) State whether following statements are True or False (Any 10)** 10
- 1) According to AS 2 cost of inventory should exclude labour cost.
  - 2) Specific identification method of inventory valuation is followed in case of Item of same cost price.

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- 3) Applicability of AS 1 depends on management.
- 4) Revenue receipts decrease profits.
- 5) Addition of a new wing to the factory is deferred revenue expenditure.
- 6) If capital expenditure is shown as revenue expenditure, then Accounts show higher profits but lower assets.
- 7) Carriage Outward is allocated to respective departments on the basis of debtors of each department.
- 8) Carriage Inward is recorded in departmental P&L Account
- 9) Goods transferred from department X to department Y will be recorded on debit side of Department X.
- 10) In Hire Purchase system, component other than cash price included in installment is called as Down Payment.
- 11) In Hire Purchase System, depreciation can be provided on Down Payment plus Interest.
- 12) Manufacturing A/c is closed by debiting P & L A/c and crediting Manufacturing A/c.

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

20

- a) From the following data, prepare Departmental Trading and Profit and Loss Account in Columnar form for the year ended 31<sup>st</sup> March, 2023:

		Amt.			Amt.
	Rs.	Rs.		Rs.	Rs.
Purchases:			Insurance		5400
Toys (A)	3,16,800		Commission		23,040
Books (B)	2,61,600		Delivery Expenses		14,400
Stationery (C)	<u>2,08,800</u>	7,87,200	Rent		25,200
Sales:			Discount Received		11,808
Toys (A)	4,80,000		Salaries		1,89,000
Books (B)	3,84,000		Advertisement		11,664
Stationery (C)	<u>2,88,000</u>	11,52,000	Administration Expenses.		47,340
Opening Stock:			Depreciation		17,640
Toys (A)	87,600		Closing Stock:		
Books (B)	67,440		Toys (A)	74,400	
Stationery (C)	<u>54,720</u>	2,09,760	Books (B)	51,924	
			Stationery (C)	<u>58,476</u>	1,84,800

All the expenses are to be apportioned equally between three departments, except the following:

- a) Delivery expenses: In proportion to Sales,
- b) Commission: 2% of Sales,
- c) Salaries and Insurance in Proportion of 6: 5: 4.
- d) Discount Received: 1.5% of Purchases.

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OR

- b) P'Mart Department Stores had three Departments A, B, and C. The following particulars regarding the three Departments are given:

	Dept. A	Dept. B	Dept. C
	Rs.	Rs.	Rs.
Opening Stock	1,60,000	80,000	2,40,000
Purchases	4,40,000	2,20,000	8,80,000
Sales	16,00,000	12,00,000	8,00,000
Closing Stock	96,000	48,000	9,60,000

	Rs.
General Expenses	96,000
Rent, Rates, Taxes	72,000
Commission Received	36,000
Discount Allowed	1,08,000
Sales Promotion Expenses	1,44,000
Salesman's Salary	36,000
Discount Received	56,000

1. Goods costing Rs.40,000 were transferred from Department A to Department B. Goods costing Rs.20,000 were transferred from Department C to B.
2. Allocate General Expenses and Rent, Rates and Taxes equally between the three Departments.
3. Commission received is divided in the ratio of 3: 2:1 between Departments A, B and C respectively.

Prepare Departmental Trading and Profit and Loss Account allocating other expenses on appropriate basis.

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

20

- a) From the following particulars, value the closing stock separately under:  
(a) FIFO Method; (B) Weighted Average Method

1 <sup>st</sup> April, 2023	Opening stock	24000 units @ 4
4 <sup>th</sup> April, 2023	Sales	6000 units
8 <sup>th</sup> April, 2023	Purchases	30000 units @ 5
10 <sup>th</sup> April, 2023	Sales	15000 units
12 <sup>th</sup> April, 2023	Sales	6000 units
15 <sup>th</sup> April, 2023	Purchases	21000 units @ 5.50
18 <sup>th</sup> April, 2023	Sales	15000 units

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OR

- b) Following trial balance was extracted by Mr. Gaurav from his books of account for the year ended 31-3-2023. You are required to prepare his final accounts for the year ended on that date.

## Trial Balance as on 31-3-2023

Debit Balance	Rs.	Credit Balance	Rs.
<b>Raw Materials:</b>		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	36,600
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	Discount	1,800
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	10,200		
Carriage Inward	1,500		
Stationery and Printing	4,200		
Bills Receivable	12,900		
Sundry Debtors	63,000		
Bank of India	1,07,100		
	Rs. 15,14,400		Rs. 15,14,400

**Adjustments:**

- 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
- Factory insurance prepaid Rs.900
- Provide interest on capital @ 5%. Interest on drawings is to be ignored.
- Create 5% provision for doubtful debts, 2% discount on Sunday debtors.
- Raw Material costing Rs. 5,400 were destroyed by fire and Insurance company admitted a claim of Rs.4,000.
- Provide depreciation on Plant and machinery at 5% p.a.



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

- a) DD Brothers purchased machinery from CC Sisters On Hire Purchase system on 1<sup>st</sup> April, 2020. The cash price of the machinery was Rs.3, 60, 000. Rs.40, 000 were paid on signing the agreement & the balance in half yearly installments of Rs.80,000 each plus interest at 12% per annum payable on 30th September and 31st March every year. DD Brothers charged depreciation at 20% per annum on written down value. 20

Prepare Machinery A/c, CC Sisters A/c, Interest A/c and Depreciation A/c Accounts in the books of DD Brothers for the year ended 31<sup>st</sup> March, 2021 and 31<sup>st</sup> March 2022 to give effect of above transactions.

OR

- b i) Classify the following in Capital/ Revenue/ Deferred Revenue Expenditure or Income with reason. 10

- 1) Capital introduced by partner.
- 2) Wages paid to labour to repair old machinery.
- 3) Commission received on sales.
- 4) Amount borrowed.
- 5) Purchase of furniture

- b ii) NS & Sons purchased a machine from SG Associates on hire-purchase basis on 1<sup>st</sup> April, 2018. The terms of the contract were as follows: 10  
 The cash price of the printing machine was Rs. 9,00,000.  
 Rs. 1,80,000 were paid on signing the contract on 1<sup>st</sup> April, 2018.  
 The balance was paid in yearly installments of Rs. 2,40,000 plus interest at 15% per annum.

The installments were paid on 31<sup>st</sup> March every year commencing from 31<sup>st</sup> March 2019. NS & Sons charged depreciation at 20% per annum on the reducing balance method. They closed their books on 31<sup>st</sup> March every year.

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

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

(a) Answer the following:

- i) Write detailed note on Accounting Standards. 10
- ii) Explain Journal entries in the books of Hire Vendor 10

OR

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

- i) Capital & Revenue Expenditures
- ii) Cost of Production
- iii) FIFO method of stock valuation
- iv) Features of AS-9
- v) Departmental accounting
- vi) Hire purchase system

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CODE:

B.C

Duration: 03 hours

Marks: 100

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

- Q:1**
- A)** **Marks**
- 1) Explain the following terms in 2-3 sentences: (Any five)** **10**
- |                        |                                 |
|------------------------|---------------------------------|
| a) Grapevine           | b) Channel                      |
| c) WhatsApp            | d) Upward Communication         |
| e) E-mail              | f) Deliberate Negative feedback |
| g) Complimentary close | h) Jargon                       |
- B) Match the following:** **05**
- | Column-A                               | Column-B                        |
|--|---------------------------------|
| 1) Intimate Zone                       | a) Extra-personal communication |
| 2) Communicating with non-human beings | b) Listening inattentively      |
| 3) Message                             | c) Peers                        |
| 4) Lateral communication               | d) Content                      |
| 5) Marginal listening                  | e) Infant and mother            |
- C) Fill in the blanks by choosing the best alternative from the ones given below:** **05**
- The framing of the message is known as \_\_\_\_\_.  
a) decoding b) arranging c) encoding d) printing
  - \_\_\_\_\_ is the acronym for modular object-oriented dynamic learning environment.  
a) Modle b) Modell c) Model d) Moodle
  - Gossip is an example of \_\_\_\_\_ communication.  
a) Vertical b) Horizontal c) Grapevine d) Diagonal
  - \_\_\_\_\_ media blurs private/public boundaries.  
a) Social b) Journalistic c) Entertainment d) Web
  - The traditional resume is called the \_\_\_\_\_ resume.  
a) chronological b) functional c) combined d) official
- Q:2 Write Short notes on: (Any four)** **20**
- Business Meal Etiquette
  - Silence as a form of communication
  - Process of Communication
  - Significance of Communication in Global World
  - Internet
  - Advantages of Facebook

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Duration: 03 hours

Marks: 100

**Q:3 Answer the following questions: (Any two)** 20

- a) Explain various factors leading to cross-cultural barrier. What are the ways to overcome them?
- b) Discuss importance of listening. Explain barriers to effective listening.
- c) Discuss the ethics that should govern the use of the computer and the internet.

**Q:4 Draft a reply in response to the following advertisement-** 10

A reputed accountancy firm requires Junior Account. Interested Commerce graduates familiar with the advanced excel and additional computer processing, may send their application with resume within 20 days from the date of advertisement to: P.O. Box. 6862, The Sterling Share Exchange, Glass House, Sector 95, Kharghar, Navi Mumbai-410210.

**Q:5 Draft the following letters: (Any four)** 20

- a) You wish to take admission for a postgraduate course in Economics from a University based in Scotland. Draft the statement of Purpose.
- b) Draft a letter of recommendation for your junior who is applying for the post of Forensic Accountant at Rajani Metal Mart.
- c) You have received an offer for the post of Junior Manager from Roxy Foundation. Draft your letter of acceptance of the job offer.
- d) Ms Rini Kapoor wishes to relocate to Nasik, Maharashtra as she is starting her entrepreneurial venture. Draft her letter of resignation.
- e) Draft an appreciation letter for your junior, Ms Pratima Pradeepan for displaying her dedication and commitment as a Human Resource personnel in your company St. Andrew's Consultant Firm.

**Q:6 A) Write a paragraph in about 150 words on any one of the following:** 05

- a) Patience pays rich dividends
- b) Wise use of Internet

**B)** Read the following situation carefully and answer the questions given below:  
Mr Altman Dsouza is a dedicated senior manager at FRESCO Software Pvt Ltd. He has to his credit twenty years of service and is very loyal to the organisation. He has fixed ideas of getting work done. In his enthusiasm, he constantly conveys work related orders and instructions to his subordinates. His subordinates respect his sincerity but dislike his constant interference. This has resulted in extreme resentment and unhappiness among young employees, and affected the functioning of the organisation.

- a) Identify and explain the problem in the given situation. 03
- b) Discuss the means to overcome the problem faced by the employees. 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) \_\_\_\_\_ is the value of the next best alternative forgone.
    - a) Average cost
    - b) Opportunity cost
    - c) Production cost
    - d) Total Cost
  - 3) The market clearing price also known as \_\_\_\_\_.
    - a) Current price
    - b) Equilibrium price
    - c) Prevailing price
    - d) Constant price
  - 4) The \_\_\_\_\_ states that other factors being constant, price and quantity demanded of a commodity are inversely related.
    - a) Law of Demand
    - b) Law of Supply
    - c) Law of rent
    - d) Law of increasing cost
  - 5) Percentage change in quantity demanded due to percentage change in price of the commodity is known as \_\_\_\_\_.
    - a) Income elasticity of demand
    - b) Promotional elasticity of demand
    - c) Price elasticity of demand
    - d) Cross elasticity of demand
  - 6) \_\_\_\_\_ is the part of statistical method of demand forecasting.
    - a) Expert opinion
    - b) Consumer survey
    - c) Trend analysis
    - d) Delphi 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) In case of \_\_\_\_\_, output increases in the same proportion as increase in all the inputs.
    - a) Increasing returns to scale
    - b) Decreasing returns to scale
    - c) Constant returns to scale
    - d) Zero returns to scale
  - 9) When TP is maximum, MP is \_\_\_\_\_.
    - a) Zero
    - b) Maximum
    - c) Negative
    - d) Constant
  - 10) \_\_\_\_\_ cost is due to factors owned by entrepreneur himself and employs in the firm.
    - a) Implicit
    - b) Explicit
    - c) Sunk
    - d) Incremental
  - 11) In the long run \_\_\_\_\_.
    - a) All costs are variable
    - b) Some costs are fixed
    - c) All costs are fixed
    - d) All of the above
  - 12) Break – even point analysis compares total revenue with \_\_\_\_\_.
    - a) Total profit
    - b) Total output
    - c) Total cost
    - d) Price
- Q:1 B) State whether following statements are True or False (Any 10) 10
- 1) Micro economics deals with functioning of an economy as a whole.
  - 2) A function shows relationship between two or more variables.
  - 3) Movement along the demand curve takes place when price of the product changes and all other determinants remaining constant.
  - 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 forecast are essential to plan future production.
- 7) The ridge lines separate economic region of production from uneconomic region of production.
- 8) The law of returns to scale explains production in the short run.
- 9) External economies may occur due to division of labour.
- 10) Incremental cost is the cost to produce an additional unit.
- 11) When MC is greater than AC, AC will be falling.
- 12) At break-even point  $TR = TC$ .

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

- A) Define Business Economics and discuss its scope. 7
- B) Given the following data calculate TR, AR, and MR and identify the market structure and state the relationship between TR, AR and MR. 8

Output (units)	1	2	3	4	5
Price	100	90	80	70	60

OR

- C) Explain the difference between marginalism and incrementalism. 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 and Rs.400. Find the equilibrium price and quantity. 8

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

- A) Explain the law of demand and important determinants of demand. 7
- B) Explain the demand curve under perfect competition and monopoly. 8

OR

- C) A movie theatre charged Rs 200 per ticket and sold 600 tickets per show. When the price of ticket was raised to Rs 225 per ticket the theatre was able to sell only 550 tickets per show. Estimate the price elasticity of demand for movie tickets. Is demand elastic or inelastic? 7
- D) Explain demand forecasting and its significance. 8

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

- A) Define the term iso-quant and explain its any three properties. 7
- B) What do you mean by internal economies of scale? Discuss in detail the various kinds of internal economies. 8

OR

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

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

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

- A) Derive the LAC curve using the short run average cost curves of a firm. Why is it called planning curve? 7
- B) For a hypothetical firm, if price of product is Rs 10/-, TFC is Rs. 2000 and AVC is Rs 6/- then: 8
- Calculate breakeven output for this firm.
  - At the original TFC and AVC, how does breakeven quantity change if price decreases to Rs. 8 /-?
  - At the original price and AVC, how does breakeven quantity change if TFC increases to Rs 2400/-?
  - At the original price and TFC, how does breakeven quantity change if AVC decreases to Rs 2 /-?

OR

- C) What is a break-even point? Explain its various applications. 7
- D) Total fixed cost is Rs. 55. Derive TVC, MC, AFC, AVC and AC using the following information. 8

Units of Output	1	2	3	4	5	6	7
TC	75	90	110	135	170	190	210

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

- A) What is meant by economies of scope? How is it different from economies of scale. 10
- B) What is learning curve? Explain with the help of a diagram. 10

OR

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

- Functions and equations.
- Promotional elasticity of demand.
- Types of Isoquants.
- Ridge lines.
- Accounting and economic cost.
- Limitations of break-even analysis.

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

- Q:1** A) Choose the correct answer from the options given below. (Any 10) **Marks**  
**10**
- 1) ..... is a trading block of European Countries.
 

a) NAFTA	b) EU
c) SAARC	d) ASEAN
  - 2) ..... feasibility study finds out profitability of the proposed project.
 

a) Technical	b) Market
c) Financial	d) Political
  - 3) Poultry, dairy and plant nurseries are example of ..... industry.
 

a) Genetic	b) Extractive
c) Construction	d) Commercial
  - 4) Analysis of competitors strategies is an element of ..... environmental analysis.
 

a) Internal	b) External
c) National	d) International
  - 5) ..... describes the purpose and value of business.
 

a) Mission statement	b) Objectives
c) Principles	d) Vision statement
  - 6) ..... Objectives are also known as threefold objectives.
 

a) Social	b) Economic
c) Organic	d) Legal
  - 7) Returns to entrepreneurs are in the form of .....
 

a) Profit	b) Income
c) Pay package	d) Perquisites
  - 8) ..... is the apex national level institute for entrepreneurial development.
 

a) EDII	b) IIE
c) NIESBUD	d) NSIC
  - 9) ..... refers to reduction of government control over business sector.
 

a) Liberalization	b) Privatization
c) Globalization	d) Nationalization
  - 10) Mahila Udyam Nidhi scheme for women entrepreneurs is implemented by .....
 

a) RBI	b) SIDBI
c) NABARD	d) SIDO
  - 11) ..... number is required for directors of a company.
 

a) DIN	b) TAN
c) TIN	d) DNI
  - 12) The ..... agreement of WTO pertains to patents and copyrights.
 

a) TRIPs	b) TRIMs
c) GATs	d) None of these
- Q:1** B) State whether following statements are True or False. (Any 10) **Marks**  
**10**
- 1) Legal environment consists of factors related to population.
  - 2) TRIMs and AOA are examples of trading blocs.
  - 3) Business is a socio- economic activity.
  - 4) Entrepreneurship is an economic activity.
  - 5) Financial feasibility study covers technical aspects of the project.

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

- Q:1** A) Choose the correct answer from the options given below. (Any 10) **Marks**  
10
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c) GATs	d) None of these
- Q:1** B) State whether following statements are True or False. (Any 10) 10
- 1) Legal environment consists of factors related to population.
  - 2) TRIMs and AOA are examples of trading blocs.
  - 3) Business is a socio- economic activity.
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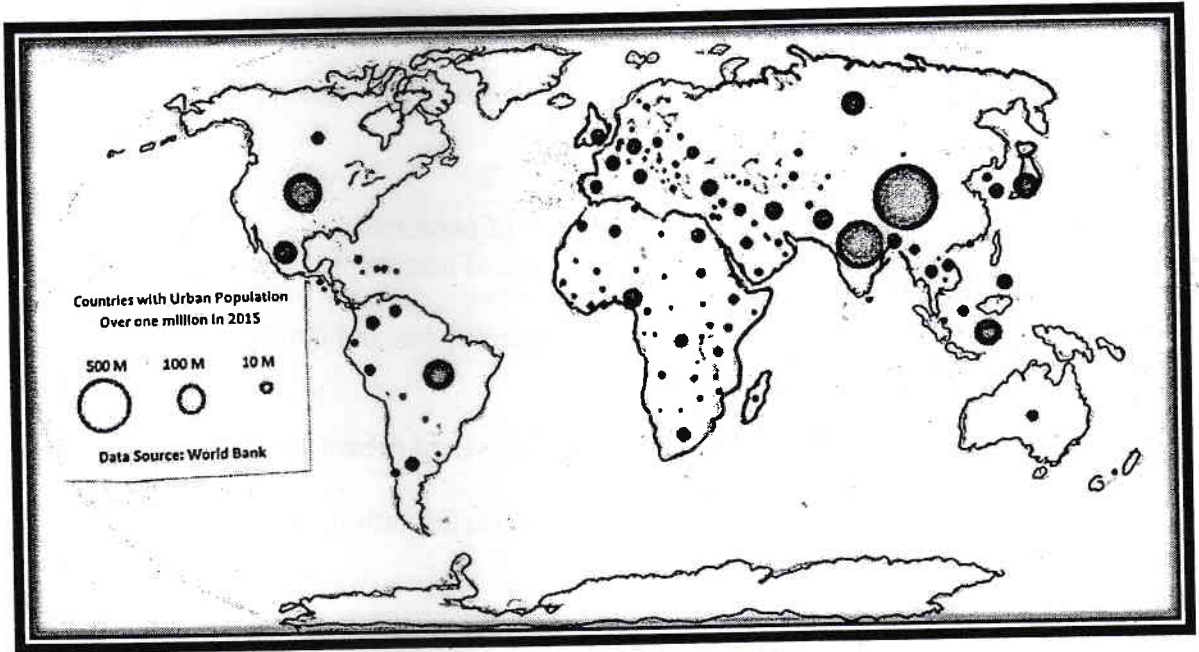
Duration: 3 hours

Marks: 100

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

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

10



- 1) What is the theme of the map? 01
- 2) Identify the cartographic technique used in the given map. 01
- 3) According to the map which country shows the highest urban population in 2015 and give reasons for your answer. 03
- 4) According to the map which continent shows the lowest urban population in 2015 and give reasons for your answer. 03
- 5) What is the urban population of Japan? 01
- 6) What is the tentative urban population of North American continent? 01

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

10

- 1) A major hot desert in the world
- 2) An earthquake prone region in South America.
- 3) Longest river in the world.
- 4) Youngest mountain range in the world.
- 5) The country having very rich deposits of natural gas.
- 6) A major nuclear accident site.
- 7) A smart city in Europe.
- 8) Country with the highest HDI in the southern hemisphere.
- 9) Country with the highest PPP.
- 10) A South American country experiencing rapid deforestation.

CODE:

Duration: 3 hours

Marks: 100

- Q:2 Answer any two of the following:** 20
- a) Briefly elaborate on the Biotic components of the environment. 10
  - b) Elaborate on the functioning of the ecosystem. 10
  - c) Write a short note on Man- Environment relationship. 10
- Q:3 Answer any two of the following:** 20
- a) Classify and elucidate on the types of resources 10
  - b) What is meant by resource conservation and what are the different methods of conservation? 10
  - c) Write a short note on importance of Sustainable Development. 10
- Q:4 Answer any two of the following:** 20
- a) Discuss on the factors influencing density of population. 10
  - b) What is overpopulation. Explain the impact of human pressure on the Global environment. 10
  - c) Explain the concepts of Human Development Index and Gross Happiness Index. 10
- Q:5 Answer any two of the following:** 20
- a) What is urbanization? Explain the major causes of urbanization leading to environmental pollution. 10
  - b) Discuss in detail the problems associated with migration. 10
  - c) Give an account on "Urban Heat Island". 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 08)

08

- 1) \_\_\_\_\_ is the holy book of the Christians.
  - a) Bhagavad Gita
  - b) Bible
  - c) Quran
  - d) Torah
- 2) Among the states, \_\_\_\_\_ has the highest literacy rate.
  - a) Rajasthan
  - b) Kerala
  - c) Maharashtra
  - d) Haryana
- 3) The major cause of declining sex ratio is \_\_\_\_\_.
  - a) Poverty
  - b) Alcohol
  - c) Pollution
  - d) Smoking
- 4) \_\_\_\_\_ is commonly known as far sightedness.
  - a) Onomatopia
  - b) Myopia
  - c) Glaucoma
  - d) Hypermetropia
- 5) There was a water dispute over \_\_\_\_\_ river in the States of Maharashtra, Karnataka and Andhra Pradesh.
  - a) Ganga
  - b) Koyna
  - c) Kaveri
  - d) Krishna
- 6) Demand of the 'sons of soil' is \_\_\_\_\_.
  - a) Linguism
  - b) Casteism
  - c) Communalism
  - d) Regionalism
- 7) There are \_\_\_\_\_ Schedules in the Indian Constitution.
  - a) 12
  - b) 14
  - c) 15
  - d) 13
- 8) Indian Constitution has adopted \_\_\_\_\_ democracy.
  - a) indirect
  - b) direct
  - c) parliamentary
  - d) president
- 9) India has \_\_\_\_\_ party system.
  - a) Multi
  - b) Bial
  - c) Dual
  - d) Single
- 10) \_\_\_\_\_ is the head of the Gram Panchayat.
  - a) President
  - b) Sarpanch
  - c) Chairperson
  - d) Panchayat Raj

CODE:

Duration: 2: 30 hours

Marks: 75

- Q:1 B) State whether following statements are True or False (Any 7) 07**
- 1) The Constitution of India recognises 22 languages.
  - 2) The eight fold path was given by Lord Buddha.
  - 3) Denial of woman's share in properties is a form of domestic violence.
  - 4) Kerala has the worst gender ratio among the states of India.
  - 5) In India, the roots of caste system are found in Hinduism.
  - 6) Communalism is opposed to Secularism.
  - 7) 26<sup>th</sup> November is observed as the Constitution Day.
  - 8) The word sovereign means equal respect for all.
  - 9) There is 100 percent political participation of women in India.
  - 10) The Mayor is elected for a term of five years.
- Q:2 Attempt any one of the following:-**
- A) Explain the regional variation in India according to rural and urban characteristics. 15
- OR**
- B) What steps should be taken to prevent violence against women in India? 15
- Q:3 Attempt any one of the following:-**
- A) Discuss the inequalities caused by the caste system. 15
- OR**
- B) Discuss the reasons for communal violence in modern India. Suggest measures to overcome the problems of communalism. 15
- Q:4 Attempt any one of the following:-**
- A) Describe the nature of Indian State as "Sovereign", "Secular", and "Socialist". 15
- OR**
- B) Describe the fundamental duties of Indian citizens. 15
- Q:5 Attempt any one of the following:-**
- Bring out the role and significance of women in politics. 15
- OR**
- Write Short notes on any three of the following: (Any 03) 15**
- a) Rural Characteristics.
  - b) Causes of declining sex ratio.
  - c) Causes of linguistic conflicts.
  - d) Salient features of the Indian Constitution.
  - e) Panchayat Raj.
- X-----X-----X-----



CODE:

Duration: 3 hours

Marks: 100

N.B: -

- (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) Mr. A 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
- b) Mr. B bought some 10% Rs. 100/- shares at Rs. 350/- and after getting the dividend, sold them at Rs. 375/-. The brokerage was 0.2% on purchase and 0.3% on sale. Find the rate of return on investment. 5
- c) The N.A.V. of a mutual fund scheme changed from Rs.50.25 to Rs.62.40 in 18 months. Find the absolute change in the N.A.V., percentage change in the N.A.V. and the annualized change in the N.A.V. 5
- d) Mr.C invested Rs. 70,000 in a mutual fund when the N.A.V. was Rs. 13.12 with an entry load of 2.25%. Find the no. of unit's rounded off to 3 decimal places. He sold all the units when the N.A.V. was Rs. 20.44 with no exit load. Find his gain and the rate of return on investment. 5
- e) An investor joined the S.I.P. scheme for a mutual fund under which he would invest Rs.15,000/- each month for 5 months. If the N.A.V.'s for each month are Rs.43.6, Rs.46, Rs.48, Rs.48.5 & Rs.49.5 respectively. Find the average acquisition cost per unit up to 2 decimal places. The numbers of units were rounded up to 3 decimal places. 5

**Q:2 Answer any FOUR of the following:**

- a) In how many ways can the letters of the word 'DESIGN' be arranged such that:  
i) All vowels should always come together  
ii) All consonants should always come together 5
- b) There are 5 men and 5 ladies. Find the number of ways in which a committee of 4 can be formed from these, if the committee includes at least 2 ladies. 5
- c) Solve the following L.P.P. graphically 5  
Maximize  $Z = 3x + 4y$   
Subject to  $x + 2y \leq 2$ ;  
 $3x - y \leq 6$ ;  
 $x \geq 0$ ;  $y \geq 0$ .
- d) Solve the following L.P.P. by graphical method: 5  
Minimize  $Z = 10x + 15y$ ,  
Subject to  $6x + y \geq 6$ ,  
 $x - y \geq 1$ ,  
 $x \geq 0$ ,  $y \geq 0$ .

- e) Food X contains 14 units of vitamin A per gram & 16 units of vitamin B per gram & costs Rs. 11 per gram. Food Y contains 16 units of vitamin A per gram & 18 units of vitamin B per gram & costs Rs.10 per gram. The daily minimum requirement of vitamins A & B are 180 units & 220 units respectively. Formulate the above problem as a L.P.P. to minimize the cost. 5

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

- a) Define Dispersion and write short note on Types of Dispersion. 5  
 b) Draw less than Ogive curve for the following distribution and hence locate Median graphically. 5

Class Interval	10-20	20-30	30-40	40-50	50-60
Frequency	13	19	23	21	15

- c) Calculate Third Quartile and Fifth Decile for the following frequency distribution: 5

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	10	12	18	20	16	15

- d) Calculate the Arithmetic Mean and Mode of the following frequency distribution: 5

Values	2	4	6	8	10	12	14
Frequency	3	5	7	13	11	9	6

- e) Calculate standard deviation and coefficient of variation for the following data. (Correct up to two decimal places) 5

Marks	2-4	4-6	6-8	8-10	10-12	12-14
No.of students	5	10	15	20	6	2

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

- a) Explain the following terms: 5  
 (i) Independent event (ii) Exhaustive Event (iii) Union of two Events.  
 b) A ticket is drawn at random from 60 tickets numbered from 1 to 60. Find the probability that the number on the ticket drawn is 5  
 (i) Divisible by 10 (ii) Divisible by 6 (iii) Divisible by 10 or 6.  
 c) In a group of 200 students, 100 passed in Accounts, 150 passed in Economics and 75 passed in both the subjects. Find the probability that a student selected at random who passed in 5  
 i) at least one subject ii) only in one subject.  
 d) If A and B are any two events of sample space S and  $P(A) = 0.6$ ,  $P(B) = 0.2$  and  $P(A \cap B) = 0.35$ , then find (i)  $P(\bar{A})$ , (ii)  $P(A \cap B)$ , (iii)  $P(A \cup B)$  5  
 e) For the following probability distribution, find the value of: 5  
 i) k ii)  $E(x)$  iii)  $V(x)$ .

x	5	10	15	20	25
P(x)	0.2	0.4	k	0.1	0.1

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

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

Event Act	E <sub>1</sub>	E <sub>2</sub>	E <sub>3</sub>
A <sub>1</sub>	80	65	95
A <sub>2</sub>	105	90	120
A <sub>3</sub>	115	130	88

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

No. of unit demanded	20	30	40
Probability	0.30	0.40	0.30

The product is sold at Rs. 35/- per unit with cost price Rs. 25/- per unit. Prepare a pay-off table. The unit not sold is wasted.

- d) Find the best course of action using Expected Opportunity Loss (EOL) criterion from the data given below: 5

States of Nature	Course of action		Probability
	A1	A2	
S1	60	85	0.3
S2	75	60	0.2
S3	95	100	0.5

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

Course of action	States of Nature		
	S1	S2	S3
A1	150	170	190
A2	140	110	180
A3	170	150	220
Probability	0.4	0.3	0.3

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