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PAPER'S

Paper - 1: Organization & Management Fundamentals

Chapter-1: Organization, Meaning, Structure and Process 2009 - Dec [2] (a) What are the steps involved in organisation function? (4 marks) Chapter-2: Bases of Organization- Departmentation, Delegation of Authority and Decentralization 2009 - Dec [3] (c) State any four bases of departmentation. (4 marks) Chapter-3 : Formal & Informal Organization and Groups 2009 - Dec [6] (b) Distinguish between formal and informal organisations. (5 marks) **Chapter-4**: Organisation Theory 2009 - Dec [2] (b) State the four pillars of classical theory of organisation. (4 marks) **Chapter-5 : Behaviour in Organization** 2009 - Dec [3] (b) Differentiate Organisation Theory and Organisation Behaviour. (4 marks) **Chapter-9 : Scientific Management** 2009 - Dec [5] Explain the fundamental principles of Scientific Management, as propounded by F.W. Taylor. (9 marks) **Chapter-11 : Training and Development** 2009 - Dec [8] Write notes on the following : (b) Advantages of training; (3 marks)

Chapter-15 : Concept of Power, Authority and Responsibility	
2009 - Dec [3] (a) State the main characteristics of authority.	(4 marks)
2009 - Dec [7] (a) Describe the process of delegation.	(4 marks)
2009 - Dec [8] Write notes on the following :	
(a) Unity of Command ;	(3 marks)
Chapter-16 : Leadership	
2009 - Dec [6] (a) State the different types of leadership styles.	(4 marks)
Chapter-17 : Organizational Conflict	
2009 - Dec [2] (c) What are the methods to be adopted to resolve c	conflicts in
an organisation ?	(4 marks)
Chapter-18 : Management of Change	
2009 - Dec [7] (b) What are the challenges before the future manage	gers ?
	(5 marks)
2009 - Dec [8] Write notes on the following :	
(c) Any three reasons for resistance to change among employees	,
	(3 marks)
Chapter-20 : Concept of Public Sector and Privatisation	
2009 - Dec [8] Write notes on the following :	
(d) Disinvestment Policy;	
(e) Kinds of Public Sector Undertakings. (3 m	arks each)
Chapter-21 : Objective Questions	
2009 - Dec [1] {C} (a) Do you agree with the following Statement	nts? Write

'Yes' or 'No' giving proper reasoning in support of your answer. No marks will be awarded if only 'Yes' or 'No' is mentioned.

- (a) Organisation is considered as an activity.
- (b) There is scalar chain in line organisation.
- (c) Informal organisation is a joint personal activity without conscious common purpose.
- (d) Without division of labour, a job would be so inclusive that its performance would be impossible.
- (e) 'Personality' refers to external appearance and behaviour only.
- (f) 'Attitude' refers to a mental status of readiness to do or not to do any activity.
- (g) The mission statement of an organisation refers to the target to be achieved during a period.
- (h) Formally goals are set by the entrepreneurs always.
- (i) Conflict refers to uncertainty in an organisation. $(2 \times 9 = 18 \text{ marks})$

2009 - Dec [4] {C} (a) Match the statement in Column 1 with appropriate statement under Column II :

- Column I
- (i) Departmentation
- (ii) Informal group
- (iii) Elton Mayo
- (iv) Intra-individual and inter-individual
- (v) Halsey's Plan
- (vi) Piece Rate System
- (vii) Coding and Decoding
- (viii) Public Sector Undertaking
- (ix) Control Technique
- (x) Board Meetings
- (xi) Maslow
- (xii) Herzberg

- Column II (A) Bonus/Incentive
- (B) Communication Process
- (B) Communication Flocess
- (C) Complement to Organisation Structure
- (D) Productwise Division
- (E) Hawthorne Experiments
- (F) Conflicts
- (G) C.P.M.
- (H) Method of Wage Payment
- (I) Directors
- (J) Service Motive
- (K) Two-factor Theory
- (L) Hierarchy Theory

 $(1 \times 12 = 12 \text{ marks})$

- (b) Fill in the blanks :
 - (i) _____ involves shifting of an employee from one job to another without changing the responsibility of the employee.
 - (ii) Temporary removal of an employee from the payroll of an organisation by an employer due to uncontrollable reasons is known as _____.
 - (iii) Golden handshake refers to _____ retirement.
 - (iv) _____ is a systematic attempt to probe the future by inference from known facts.
 - (v) _____ decisions are those that are repetitive and routine.
 - (vi) MIS is the system of organising the _____ flow network within the organisation.
- (vii) Theory Y assumes that people are self motivated and was advocated by .
- (viii) _____ Power is based on the personality attributes or personal virtues of a person.
- (ix) Profit making public sector enterprises are referred to as _____. $(1 \times 9 = 9 \text{ marks})$

(c) State what the following abbreviations stand for :

- (i) MBO,
- (ii) SOBC Model,
- (iii) MIS,
- (iv) MOU,
- (v) BIRF,

- (vi) GST,
- (vii) CPM,
- (viii) GAIL.

 $(1 \times 8 = 8 \text{ marks})$

- (d) Give the proper sequence among the following :(i) Scrutiny of Applications, Medical examination, Interview, Checking references.
 - (ii) Establishment of Objectives, Problem Identification, Evaluating Alternatives, Developing Premises.
 - (iii) Social needs, Safety needs. Physiological needs. Esteem needs, Selfactualisation needs.
 - (iv) Selection, Placement, Manpower Planning, Training and Development. $(1 \times 4 = 4 \text{ marks})$

(e) Define, in just one sentence, the following :

- (i) Delegation of Authority ;
- (ii) Lock out ;
- (iii) Span of Control;
- (iv) Privatisation ;
- (v) Statutory Meeting.

 $(2 \times 5 = 10 \text{ marks})$

Paper - 2 : Accounting

Chapter-4 : Bank Reconciliation Statement

2009 - Dec [2] (a) Based on the following information prepare a Bank Reconciliation Statement as on 31st December, 2008and find the balance as per pass book.

- (i) Bank overdraft as per cash book on 31.12.2008 Rs. 6,340;
- (ii) Interest on overdraft for 6 months ending 31.12.2008 Rs.160 is entered on pass book;
- (iii) Bank charges amounted to Rs.30 for the above period were entered in the pass book;
- (iv) Cheques issued but not presented up to 31.12.2008 amounted to Rs. 1168;
- (v) Cheques sent for collection to the bank but not collected upto 31.12.2008 amounted to Rs.2,170;
- (vi) Interest on investments collected by the bank and entered in the pass book Rs.1200.
 (6+1=7 marks)

Chapter-6 : Opening & Closing Entries

2009 - Dec [4] (b) Pass journal entries in the current year for the rectification of following errors which were located after the final accounts of previous had been prepared. These errors relate to earlier year. Rate of depreciation on fixed assets is 10%:

- (i) Purchase of a second hand scooter was debited to the conveyance account amounting to Rs.5000/-
- (ii) Cash received from Mr. Z was wrongly entered in the account of Y, amount being to Rs.4,000/-
- (iii) Goods purchased from A was recorded in the sales book amounting to Rs. 15,000/-
- (iv) A cheque for Rs. 500/- issued to the Supplier (Creditor) wrongly debited to purchases (4 marks)

Chapter-7 : Accounting Treatment of Bad Debts

2009 - Dec [3] (c) From the following information determine amounts to be transferred to the Profit & Loss Account: Rs.

(i)	Sundry Debtors as on 31.03.2009	50,000
(ii)	Provisions for debt as on 01.04.2008	4,000
(iii)	Bad debts written off during the year 2008-09	1,000
(iv)	Recovery of bad debts earlier written off	1,000

(v) Provision for bad and doubtful debts is maintained @ 5% (2 marks) Chapter-8 : Depreciation

2009 - Dec [3] (d) Discuss the effects of not providing depreciation. Only two points needs be given. (2 marks)

2009 - Dec [4] (c) The cost of the machinery in use with a firm as on 1 st April, 2008 was Rs. 2,50,000 against which depreciation provision stood at Rs. 1,05,000 on that date, the firm provides depreciation at 10% p.a. on SLM basis. On 01.10.2008 two machines costing Rs.15,000 and 12,000 each, both purchased on 1st Oct. 2005 had to be discarded and had to be replaced by two machines costing Rs.20,000 & 15,000 each on the same date.

On of the discarded machine realised Rs. 8,000/- and the other is expected to realised Rs.3,000/- . Prepare the following Accounts:

- (i) Machine A/c
- (ii) Machine Disposal A/c and
- (iii) Provision for Depreciation A/c for the year ended 31st March,2009

(1+2+2=5 marks)

Chapter-9 : Single Entry System

2009 - Dec [3] (b) From the following information the determine the cash and bank balance as on 31.11.2009:

	100.	
Written Down value of Land & Building	32,000	
Accumulated depreciation on Land & Building	2,000	
Insurance Premium paid in advance	900	
Creditors	13,000	
Debtors	5,000	
Furniture	12,000	
Capital	55,000	
Cash &Bank Balance	?	(2 marks)

Chapter-10 : Final Accounts

2009 - Dec [2] (b) Explain the following three statements in not more than 10 words each:

- (i) P&L A/c is a Period statement.
- (ii) Balance Sheet is Point of Time Statement.
- (iii) Statement of Affairs is Point of Time Statement. $(1 \times 3 = 3 \text{ marks})$

Chapter-12 : Bills of Exchange

2009 - Dec [4] (a) Mohan sold goods on 1st September, 2009 for Rs. 2,00,000/- to Sohan. Sohan immediately accepted a 3 months bill. On the due date Sohan requested for the renewal of the bill for a further period of two months. Mohan agrees to pay interest @ 9% per annum to be included in the new bill. Determine the amount of the new bill. (1 mark)

Chapter-13 : Consignment

Determine the abnormal loss.

2009 - Dec [3] (a) Shyam consigned 2,00,000 units @ Rs. 5/- each to Mr. Ram, and paid Freight and Insurance amounting to Rs.1,00,000 Ram spent further the following amounts:

		Ks.
(i)	Insurance	5,000
(ii)	Godown Rent	4,000
(iii)	Clearing	6,000

2,000 units were damaged during transit due to heavy rains. Ram sold 1,00,000 units @ Rs. 10/-per unit.

Ram realised salvage value of damaged units Rs.2,000/-

Ram is to get a commission @ 5% on sales.

(4 marks)

Chapter-16 : Material Cost Management

2009 - Dec [5] {**C**} (b) (iv) Discuss in brief the accounting treatment of the material loss arising out of avoidable causes. (2 marks)

Re

2009) - De	ec [7] (b) What is Bin Card? Give its sp	becimen. $(1 + 1 = 2 \text{ marks})$	
2009) - D	ec [8] (a) Closing stock lying on the la	st day of accounting year is	
valu	valued at market price. Whether valuation is acceptable. (2 marks)			
Cha	pter-	17 : Labour Cost		
2009) - De	ec [5] {C} (b) (ii)		
(A)	Star	idard hours for a job	1000 hours	
(B)	Ince hour	ntive is allowed on percentage of time rs.	saved compared to standard	
(C)	Rate	e of pay per hour	Rs. 2/-	
(D)	Ince	ntive scheme are as follows		
		% of time saved	Bonus	
		Saving upto 10%	10% of time saved	
		Saving between 11% and 20%	15% of time saved	
		Saving between 21% and 40%	20% of time saved	
(v) I	łow t	Determine the earnings of Ram who co the cost of unavoidable labour turnover	mpleted the job in 900 hours. (2 marks) is treated in cost accounts? (2 marks)	
Cha	pter-	18 : Overheads		
2009) - De	e [5] $\{C\}$ (b) (i) Determine the machine	hour rate from the following	
info	rmati	on:		
	Day	s available during the year 2008-09	306 days	
		Machine hours available	8 hours per day	
		Expenses		
			Rs.	
		Power	2,79,600	
		Lighting	20,000	
		Lubrication oil	40,000	
		Repairs	1,00,000	
		Depreciation	50,000	
		Salary of Directors	1,00,000	
			(2 marks)	
2009) - De	ec [8] (b) From the following information	on ,Calculate	
	(i)	the overhead absorption rate based on	direct labour hours	

- (ii) the overhead absorption rate based on machine hours
- (iii) under absorption of overheads and
- (iv) over absorption of overheads

Budgeted	Actual
Rs. 1,10,000	1,20,000
Rs. 2,20,000	2,40,000
Rs. 2,20,000	2,10,000
	Budgeted Rs. 1,10,000 Rs. 2,20,000 Rs. 2,20,000

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Direct Labour Hours	50,000	60,000
Machine Hours	55,000	60,000
		$(1 \times 4 = 4 \text{ marks})$

Chapter-19 : Cost Sheet

2009 - Dec [6] (a) Ramnath Ltd. manufactures and sells a typical brand of tiffin boxes under its on brand name. The installed capacity of the plant is 1,20,000 units per year distributable evenly over each month of calender year. The cost accountant of the company has informed the following cost structure of the product which is as follows:

Raw Material Rs. 20 per unit.

Direct labour Rs. 12 per unit.

Direct expenses Rs.2 per unit.

Variable overheads Rs. 16 per unit.

Fixed overheads Rs. 3,00,000 per year.

Semi-variable overheads are as follows:

- (i) Rs. 7,500 per month upto 50% capacity &
- (ii) Additional Rs. 2,500 per month for every additional 25% capacity utilisation or part thereof, the plant was operating at 50% capacity during the first seven months of the calender year 2009, at 100% capacity in the remaining months of the year.

The selling price for the period from 1st Jan,2009 to 31st July 2009 was fixed at Rs. 69 per unit. The firm has been monitoring the profitability and revising the selling price to meet its annual profit target of Rs. 8,00,000. You are required to suggest the selling price per unit for the period from 1st August 2009 to 31st December 2009.

Perpare cost sheet clearly showing the total and per unit cost and also profit for the period.

(A) from 1st Jan. to 31st July 2009.(B) from 1st Aug. to31st Dec.2009.

(3 + 3 = 6 marks)

2009 - Dec [7] (a) Rama & Co. undertook a contract for Rs. 2,80,000 for constructing a building. The following is the information concerning the contract during the year 2009:

Particulars	Rs.
Materials Purchased	95,000
Labour engaged on site	75,000
Plant installed at site at cost	25,000
Direct expenditure	3,000
Other charges	5,000
Materials sent to site	90,000
Materials returned to stores	600
Work certified	2,00,000

Value of plant as 31st Dec.,2009	15,000
Cost of work not yet certified	5,000
Material at size 31st Dec., 2009	1,900
Wages accrued 31st Dec., 2009	2,500
Direct expenditure accrued 31st Dec.,2009	250
Cash received from contractee	1,90,000

Prepare contract account in the books of Rama & co. for the year ending 31st Dec.,2009 and show

(i) the total profit and

(ii) profit to be carried over to Profit and Loss A/c. (6 + 2 = 8 marks)Chapter-20 : Marginal Costing and Decision Making

2009 - Dec [5] {C} (b) (iii) Fixed costs are always fixed. Do you agree?

(2 marks)

2009 - Dec [6] (b) Discuss the uses of Break Even Analysis. How P/V Ratio can be improved? (2 + 2 =4 marks)

2009 - Dec [8] (c) For ABC Ltd., if the margin of safety is Rs. 2,40,000 (40% of sales) and P/V ratio is 30% Calculate:

- (i) Break Even Sales
- (ii) Amount of Profit on Sales of Rs. 9,00,000
- (iii) Sales for a profit of Rs.50,000

 $(1 \times 4 = 4 \text{ marks})$

Chapter-21 : Objective Questions

(iv) Total Variable Costs

2009 - Dec [1] $\{C\}$ (a) In each of the following, one is correct. Indicate the correct answer.

- (i) Till the discounted bill is paid by the acceptor it remains :
 - A. A contingent liability for the Acceptor.
 - B. A contingent liability for the Drawer.
 - C. A contingent liability for the Bank.
 - D. A liability for the Drawer.
- (ii) Net worth is :
 - A. Total Assets Less Outside Liabilities.
 - B. Total liabilities plus Owners' equity.
 - C. Current Assets less Current liabilties.
 - D. Total Accumulated profit less Liabilities.

(iii) When cash is received for services rendered in the past :

- A. Owners' equity increases.
 - B. Current assets increase.
 - C. Profit increases.
 - D. None of the above.

- (iv) When an endorsed bill is dishonoured, for the endorsee, it becomes the liability :
 - A. of the drawee.
 - B. of the drawer.
 - C. of the payee.
 - D. of the endorser.
- (v) Life membership fees received by a non-profit organisation is treated as :
 - A. Revenue receipt.
 - B. Capital receipt.
 - C. Deferred revenue receipt.
 - D. Both revenue & capital receipt.
- (vi) Increase in the value of opening stock results in which of the following :
 - A. Increase in gross profit and net profit.
 - B. Reduction in gross profit and increase in net profit.
 - C. No effect on net profit.
 - D. None of the above.
- (vii) _____ method of stock valuation considers the purchase price of stock which entered the godown last.
 - A. FIFO.
 - B. LIFO.
 - C. Weighted average.
 - D. All the above method.
- (viii) The Trial Balance checks:
 - A. Arithmetical Mistake.
 - B. Honesty of the book keeper.
 - C. Valuation of Closing stock.
 - D. Nature of the business.
- $(xi)\quad Expenses incurred in the formation of a company are show in:$
 - A. Debit side of P&L A/c.
 - B. As an asset in Balance sheet.
 - C. As a liability in Balance sheet.
 - D. Credit side of P&L A/c. $(1 \times 9 = 9 \text{ marks})$
- (b) Fill in the blanks:
 - (i) The withdrawal of money from the business by the owner for his personal use is called _____.
 - (ii) Effects of an event must be recognised in the same accounting period in which they are entered as per _____ concept.
 - (iii) If the current year's depreciation has to be shown in the trial balance, it would be shown in the _____ side of the trial balance.

- (iv) The Depreciation mentioned under 1 (b) (iii) above is not ______from the corresponding asset in the balance sheet.
- (v) On return of goods to the seller by the buyer, the seller issues _____ note to the buyer. $(1 \times 5 = 5 \text{ marks})$
- (c) State with reasons whether the following statements are true or false.
 - (i) If the profit sharing ratio among the co-venturers is not given, the profit of the joint venture is distributed among the co-ventures in capital ratio.
 - (ii) Balances of personal accounts are carried forward to the next year.
 - (iii) Salary paid to Harish will be debited to his personal account.
 - (iv) A drawer himself may be the payee of a bills of exchange/cheque.
 - (v) Accumulated depreciation can be located in the debit side of the trail balance.
 - (vi) The accumulated in 1(c)(v) above is not deducted from the corresponding asset in the Balance sheet.
- (vii) Income received in advance is an asset.

 $(2 \times 8 = 16 \text{ marks})$

- **2009 Dec [5] {C}** (a) In each of the following ,one of the alternatives is Correct. Indicate the correct one:
 - (i) Cost of normal waste of material under contract costing is debited to: A. Contract A/c
 - B. Trading A/c

(viii) Petty Cash in an expense.

- C. Material A/c
- D. P&L A/c
- (ii) Variable Costs are fixed:
 - A. For a period
 - B. Per unit
 - C. Depends upon the entity
 - D. For a particular process of production
- (iii) When re- ordering quantity is 300 units, minimum usages is 20 units, minimum lead time is 5 days, maximum stock 400 units, re-ordering level will be:
 - A. 300 units
 - B. 200 units
 - C. 400 units
 - D. 100 units
- (iv) When over-absorption of overheads is Rs. 20,000 and the actual machine hour were 50,000. The overhead rate per machine hour is Rs. 5/- Actual overheads would be:
 - A. Rs. 5,00,000
 - B. Rs. 2,30,000

- C. Rs. 2,50,000
- D. Rs. 2,70,000
- (v) When Break-even sales is 12,000 units, selling price per unit Rs.10/-, Maximum sales is 20,000 units. The margin of safety is
 - A. Rs. 70,000
 - B. Rs. 80,000
 - C. Rs. 60,000
 - D. Rs.50,000
- (vi) A company with fixed costs amounting to Rs. 50,000 seeks to earn a profit @ 20% of selling price. The selling price is Rs.20/- per unit and the variable costs are Rs. 15/- per unit. The units sold will be:
 - A. 50,000
 - B. 60,000
 - C. 25,000
 - D. None of the above
- (vii) The concept of EOQ has been losing its shade since the introduction of :
 - A. Perpetual Inventory System
 - B. JIT Inventory System
 - C. FIFO
 - D. LIFO
- (viii) In an increasing price trend, value of closing stock of inventory would be higher under:
 - A. FIFO
 - B. LIFO
 - C. Actual Cost
 - D. Average Cost
 - (ix) Costing method in which fixed overheads are included in the cost of inventory is
 - A. Variable costing
 - B. Direct costing
 - C. Absorption costing
 - D. Process costing
 - (x) If sales is Rs. 2,70,000, variable costs are 60%, Fixed Costs are Rs. 1,00,000, BEP would be:
 - A. Rs. 1,00,000
 - B. Rs. 2,00,000
 - C. Rs. 2,20,000
 - D. Rs. 2,50,000

 $(1 \times 10 = 10 \text{ marks})$

2009 - Dec [5] $\{C\}$ (c) State with reasons whether the following statements are true or false.

- (i) The cost of abnormal waste of materials in a contract is transferred to the costing P&L A/c.
- (ii) The break even point remains the same even if the fixed costs are reduced.
- (iii) In Contract costing the work-in-progress does not include uncertified work.
- (iv) Fixed overheads per unit will reduce as production rises.
- (v) There is no difference between marginal cost and differential cost. $(2 \times 5 = 10 \text{ marks})$

Paper - 3A : Economics

Chapter-6 : Form of Market 2009 - Dec [3] Write short notes on the following: (4 marks) (a) Characteristic of Perfect Competition; **Chapter-10 : Consumption, Saving and Investment** 2009 - Dec [3] Write short notes on the following: (b) Consumption function; (4 marks) **Chapter-15 : Banking & Financial Institutions** 2009 - Dec [2] Define Central Bank. Discuss its various functions. (2+10 = 12 marks)2009 - Dec [4] What is EXIM Bank? What are its functions? State the 'three dimensional strategy' developed by the EXIM Bank. (4+4+4=12 marks)**Chapter-17 : Public Finance** 2009 - Dec [3] Write short notes on the following: (c) Deficit Financing. (4 marks) **Chapter-18 : Objective Questions 2009 - Dec [1]** $\{C\}$ (a) Answer the following: (i) Scarcity definition was given by: (A) L. Robbins (B) Alfred Marshall (C) J. M. Keynes (D) Adam Smith (ii) Real Investment comprises of : (A) Machine (B) Shares

- (C) Debenture
- (D) Bond

- (iii) Consumer's surplus was propounded by:
 - (A) Alfred Marshall
 - (B) Pigou
 - (C) Malthus
 - (D) Robbins
- (iv) Law of demand explains:
 - (A) Quantitative relationship
 - (B) Qualitative relationship
 - (C) Functional relationship
 - (D) None of the above
- (v) Exception to the law of supply is:
 - (A) Agricultural product
 - (B) Scarce goods
 - (C) Labour market
 - (D) All the above
- (vi) Economic costs comprise of:
 - (A) Explicit costs
 - (B) Implicit costs
 - (C) Normal profit
 - (D) All the above
- (vii) Homogeneous product is the characteristic of :
 - (A) Perfect competition
 - (B) Monopoly market
 - (C) Monopolistic competition
 - (D) Oligopoly
- (viii) Types of price discrimination are:
 - (A) Price discrimination of first degree
 - (B) Price discrimination of second degree
 - (C) Price discrimination of third degree
 - (D) All the above
- (ix) Non-price competition exists in:
 - (A) Monopoly market
 - (B) Oligopoly
 - (C) Monopolistic competition(D) Discriminating monopoly

 $(1 \times 9 = 9 \text{ marks})$

- (b) Fill in the blanks:
 - (i) Net National Product = Gross National Product minus_____
 - (ii) Per Capita Income = National Income.
 - (iii) National Income data depict the _____ of Income among economic units.

- (iv) Labour cannot be separated from _____
- (v) Essay on the Principle of population was written by_____
- (vi) Formula for calculating optimum population is _____.
- (vii) Visible items comprise of exports and
- (viii) Comparative Cost Theory of International Trade was propounded by .
- (ix) Balance of payment is _____ than Balance of Trade.
- (x) Money is a matter of functions four: a medium, a measure, a standard and a
- (xi) Quantitative Theory of Money was propounded by
- (xii) Cash Balance Approach is based on the _____ of money.
 - $(1 \times 12 = 12 \text{ marks})$
- (c) State which of the following statement is 'true' and which is 'false':
 - (i) There is continuous rise in price level and the value of money decreases during inflation.
 - (ii) Dear Money Policy is adopted during inflation.
 - (iii) There is glut of goods during deflation.
 - (iv) Central Bank creates credit.
 - (v) Cash Reserve Ratio is a limitation of credit creation.
 - (vi) IFCI was set up in July 1984.
 - (vii) Unit Trust of India is an Investment Bank.
 - (viii) International Monetary Fund stabilises the foreign exchange rate.
 - (ix) Special Drawing Rights facilitate the international liquidity.

 $(1 \times 9 = 9 \text{ marks})$

- (d) Define the following terms in not more than two lines:
 - (i) Indirect Tax,
 - (ii) Proportional Tax,
 - (iii) Principle of Certainty,
 - (iv) Bank Rate,
 - (v) Marginal Cost,
 - (vi) Cash Reserve Ratio.

 $(1 \times 6 = 6 \text{ marks})$

Chapter-1 : Type of Business Unit

2009 -	Dec [6] Write short notes on the following:	
(a)	Merits of Limited Liability Partnership;	(4 marks)
Chapt	ter-2 : Company Organisation & Management	
2009 -	Dec [6] Write short notes on the following:	
(b)	Shares and Debentures;	(4 marks)

Paper - 3B : Business Fundamentals

Chapter-4 : Stock Exchange and its Working

2009 - Dec. [7] What is listing of securities? What are the steps involved in completing a transaction through stock exchange broker? (2+6=8 marks) Chapter-5 : Business Communication

2009 - Dec. [8] What is communication? Explain Encoding, Decoding and Feedback as the elements in the process of communication.

(2+2+2+2=8 marks)

Chapter-6 : Objective Questions

2009 - Dec. [5] {**C**} (a) Answer the following:

- (i) Economic activities are those which are inspired by:
 - (A) Spiritual needs
 - (B) The desire to earn money
 - (C) Desire to help mankind
 - (D) All the above.
- (ii) In a limited liability partnership:
 - (A) All partners have limited liability
 - (B) All partners have unlimited liability
 - (C) Some partners have limited liability
 - (D) Some partners have no liability at all.
- (iii) Minimum number of members needed for a public company is:
 - (A) 9
 - (B) 7
 - (C) 5
 - (D) 2
- (iv) Which of the following is not a social obligation for a firm:
 - (A) Avoiding anti-social practices
 - (B) Maintaining a healthy environment
 - (C) Ensuring job satisfaction of employees
 - (D) Earning adequate profit.
- (v) Organised stock exchange in the country was started in Bombay in:
 - (A) 1877
 - (B) 1939
 - (C) 1977
 - (D) 1907
- (vi) Latest developments in communications media included:
 - (A) email
 - (B) SMS
 - (C) Video-conferencing
 - (D) All the above.

 $(1 \times 6 = 6 \text{ marks})$

(b) Fill in the blanks:

(i)

- (i) A company is an____association.
- (ii) The quorum at the annual general meeting in case of a private company is .
- (iii) Government policies are an important part of _____environment of a company.
- (iv) No person can be a member of a stock exchange if he is less than years of age.
- (v) Written communication provides a _____ record for future reference.
- (vi) The main motive of state enterprises is to render_____

$$(1 \times 6 = 6 \text{ marks})$$

(c) State which of the following statement is 'True' and which is 'False':

- The liability of a sole proprietor is always limited.
- (ii) The company Law has not given any legal status to a promoter.
- (iii) The same environment may offer opportunities to some firms and threats to some other firms.
- (iv) A stock market encourages capital formation.
- (v) A stock exchange deals with the securities of all companies.
- (vi) For communication to be effective, it must be communicator-oriented.

 $(1 \times 6 = 6 \text{ marks})$

(d) Define the following terms in not more than two lines:

- (i) Trade secrecy,
- (ii) Partner by estoppel,
- (iii) A multinational company,
- (iv) Certificate of commencement of business,
- (v) Stock Exchange Clearing House,
- (vi) Forward delivery contracts.

 $(1 \times 6 = 6 \text{ marks})$

Paper - 4 : Business Mathematics and Statistics fundamentals

Chapter-1 : Averages

2009 - Dec [1] Answer the following:

(b) The average of 7 numbers is 27. If one number is included, the average becomes 25. The included number is

(i) 11, (ii) 10, (iii) 12, (iv) none of these. (3 marks) Chapter-2 : Mixtures, Ratio, Proportions and Variation

2009 - Dec [1] Answer the following:

Choose the correct option showing the proper reasons/calculations.

(a) The number to be added to each term of the ratio 3 : 7 to make it 1 : 2 is
(i) 2, (ii) 1, (iii) 3, (iv) none of these. (3 marks)

2009 - Dec [2] Answer the following:

 (b) In a liquid mixture 20% is water and in another mixture water is 25%. These two mixtures are mixed in the ratio 5 : 3. Find the percentage of water in the final mixture. (4 marks)

Chapter-3 : Interest (Simple and Compound Interest)

2009 - Dec [1] Answer the following:

- (c) The time in which a sum of money becomes double at 10% p.a., simple interest is
 - (i) 8 years, (ii) 10 years, (iii) 12 years, (iv) none of these.

(3 marks)

Chapter-4 : **Discounts**

- 2009 Dec [2] Answer the following:
- (a) A bill for Rs. 2060 is due in 6 months. Calculate the difference between True Discount (TD) and Banker's Discount (BD), the rate of interest being 6%. (4 marks)

Chapter-5 : Set Theory, Truth Tables and Logical Statements

2009 - Dec [4] Answer the following:

- (a) If universal set is $\{1, 2, 3, 4, 5, 6\}$, $A = \{2, 4, 5\}$, $B = \{1, 3, 5\}$, $C = \{5, 6\}$ then find
 - (i) B A, (ii) $A \cup B C$,

(iii) $(A \cup B \cup C)$, where A' represent complement of A. (3 marks)

Chapter-6 : Number Systems, Indices and Surds

2009 - Dec [3] Answer the following:

Choose the correct option showing necessary reasons/ calculations.

(a) If $x = 2 + \sqrt{3}$ then the value of is

(i) 98, (ii) 196, (iii) 194, (iv) none of these. (3 marks) 2009 - Dec [4] Answer the following:

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(b) Find the square root of 16 - 30 i. (3 marks)
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Chapter-7 : Variation

2009 - Dec [3] Answer the following:

Choose the correct option showing necessary reasons/ calculations.

(c) Given a varies as bx + c. Value of a is 3 when b = 1, c = 2 and is 5 when b = 2, c = 3. The value of x would be

(i) -1, (ii) 2. (iii) 3. (iv) none of these. (3 marks)

Chapter-8 : Logarithms (Including Compound Interest by log method) 2009 - Dec [3] Answer the following: Choose the correct option showing necessary reasons/ calculations.

(e) If = then the value of zyz is
(i) 1, (ii) 0, (iii) -1, (iv) none of these. (3 marks)
Chapter-9 : Permutations and combinations

2009 - Dec [3] Answer the following:

Choose the correct option showing necessary reasons/ calculations.

(b) ${}^{n}c_{r} + {}^{n}c_{r-1}$ is equal to

(i) ${}^{n-1}c_{r'}$ (ii) ${}^{n+1}c_{r'}$ (iii) ${}^{n}c_{r+1'}$ (iv) none of these. (3 marks) **2009 - Dec [4]** Answer the following:

(c) The number of handshakes in a party was counted as 66. Determine the number of guests attending the party assuming all guests shake hands with each other.
 (3 marks)

Chapter-11 : Quadratic Equations

2009 - Dec [3] Answer the following:

Choose the correct option showing necessary reasons/ calculations.

(d) If one root of the equation $x^2 - bx + K = 0$ is twice the other root then the value of K is

(i) -8, (ii) 8, (iii) 4, (iv) none of these. (3 marks) Chapter-13 : Area

2009 - Dec [5] Answer the following:

Choose the correct option showing necessary reasons/calculations.

 (a) If two adjacent sides of right angle of a right-angled triangle are such that the length of one side is twice the other and the hypotenuse is 5 cm then area of the triangle in sq. cm is

(i) 10, (ii) 5, (iii) 2.5, (iv) none of these. (3 marks)

(b) If the parameter of a semicircle is 36 cm then area of that semicircle in sq. cm is (Given $\pi = -$)

(i) 144, (ii) 22, (iii) 77 (iv) none of these. (3 marks) Chapter-14 : Volume & Surfaces

2009 - Dec [5] Answer the following:

(c) Surfaces of a cube of volume 125 cu. ft. are painted with black colour at cost of Rs.10 per sq. ft. The amount required to paint the outer surfaces of the cube in Rs. is

(i) 1500, (ii) 1250, (iii) 1000, (iv) none of these. (3 marks)

(d) If 3 solid spheres of radii 3 ft., 4 ft. and 5 ft. of iron are melted to form a new sphere, the surface area of the new sphere in square feet is (Given π =)

(i) , (ii) , (iii) , (iv) none of these. (3 marks)

(e) A right pyramid stands on a base of 12 cm square and its height is 8 cm. Then its total surface area in sq. cm is (i) 240, (ii) 384, (iii) 624, (iv) none of these. (3 marks) 2009 - Dec [6] Answer the following:

- (a) The areas of three adjacent sides of a cuboid are 15 eq. cm, 10 sq. cm and 6 sq. cm. Find the volume of the cuboid.
 (3 marks)
- (b) The height and slant height of a right circular cone is 24 cm and 25 cm respectively. Find the area of the curved surface and volume. (Given π =). (3 marks)
- (c) The sum of length, breadth and height of a rectangular parallelopiped is 24 cm and its diagonal is 15 cm. Find the area of the whole surface of the parallelopiped.
 (3 marks)

Chapter-15 : Cartesian Plane

2009 - Dec [7] Answer the following:

Choose the correct option showing necessary reasons/calculations.

- (a) The area of the triangle formed by points (0, 0), (5, 0) and (0, 6) is
 (i) 11 sq. unit, (ii) 30 sq. unit, (iii) 15 sq. unit, (iv) 7.5 sq. unit.
 (3 marks)
- (c) A point P having coordinate (x, y) moves such that its distance from the points (1, 3) and 2, -3) are equal. Then locus of P is
 (i) 2x = 12y + 3, (ii) 2x = 6y 3, (iii) 6x = y + 3, (iv) none of these.

(3 marks)

Chapter-16 : Equations of Straight Lines

2009 - Dec [7] Answer the following:

- (b) The equation of a straight line passing through the point (5, 5) and is perpendicular to the line x = y is
 - (i) x y = 5, (ii) x + y = 5, (iii) x + y = 10, (iv) none of these. (3 marks)

Chapter-17 : Equations of Circles

2009 - Dec [8] Answer the following:

(a) Find the equation of a circle which touches both the axes in the first quadrant at a distance of 5 units from the origin. (4 marks)

Chapter-18 : Equations of Parabola

2009 - Dec [7] Answer the following:

(d) The directrix of the parabola $x^2 = 4x + 3y + 5$ is (i) 4y = 15, (ii) 4y + 15 = 0, (iii) 4x + 15 = 0, (iv) none of these. (3 marks)

Chapter-19 : Equations of Ellipse

2009 - Dec [8] Answer the following:

(b) Find the coordinate of the centre and eccentricity of the ellipse $4x^2 + 9y^2 + 18y = 16x + 11$. (4 marks)

Chapter-21 : Differential Calculus

2009 - Dec [9] Answer the following:

Choose the correct option showing proper reasons/calculations.

- (a) If h = g(x) =, then g(h) is equal to (i) q, (ii) *x*, (iii) p, (iv) none of these. (3 marks) (b) is evaluated as (i) q - p, (ii) , (iii) p - q, (iv) none of these. (3 marks) (c) If y = x then at $x = \sqrt{3}$ is (ii) , (iii) 5, (iv) none of these. (3 marks) (i) ,
- (e) If $f(x, y) = 3x^3 5x^2y + 2y^3$ then x + y is (i) f(x, y), (ii) 3, (iii) 3f(x, y), (iv) none of these.

2009 - Dec [10] Answer The following:

- (a) If $x^a y^b = (x + y)^{a+b}$ show that = where a and b are independent of x and y. (3 marks)
- (b) If $y = Ae^{mx} + Be^{-mx}$ show that $y_2 m^2 y = 0$. (3 marks)

Chapter-22 : Integration

2009 - Dec [9] Answer the following:

- Choose the correct option showing proper reasons/calculations.
- (d) is evaluated as

(i) , (ii) , (iii) $(2\sqrt{2}+1)$, (iv) none of these(3 marks) 2009 - Dec [10] Answer The following:

(c) Find the area of the region lying in the first quadrant bounded by the parabola $y^2 = 4x$, the *x*-axis and the ordinate x = 4. (3 marks)

Chapter-23 : Graphical Representation of Statistical Data

2009 - Dec [12] (b) Write short note on the following.

(i) Histogram.

Chapter-25 : Measures of Central Tendency

2009 - Dec [11] Answer the following:

Choose the correct option showing proper reasons/calculations.

- (a) First 10 odd counting numbers each occurring twice has arithmetic mean (i) 40, (ii) 10, (iii) 20, (iv) none of these. (3 marks)
- (b) Geometric mean (G.M.) of six numbers is 16. If G.M. of first four of them is 8 then G.M. of other two is

(i) 8, (ii) 16, (iii) 32, (iv) none of these. (3 marks)

(c) Two positive observations have arithmetic mean 3 and geometric mean 2√2. If each observation is multiplied by 2 then harmonic mean will be.
(i) , (ii) , (iii) 12, (iv) none of these. (3 marks)

(3 marks)

(4 marks)

- (d) If the sum of deviations of a number of observations about 4 and that about 3 are 40 and 50 respectively then arithmetic mean of the observations is
 - (i) 4, (ii) 6, (iii) 10, (iv) none of these. (3 marks)
- (e) If the relation between 2 variables x and y is xy = 2 and arithmetic mean of variable x is 10, then harmonic mean of variable y is
- (i) , (ii) , (iii) , (iv) none of these. (3 marks) 2009 - Dec [12] (a) Answer the following:
 - (ii) Show that the combined arithmetic mean of two groups lies between the arithmetic means 1 and 2 of the two groups.
 - (iii) The arithmetic mean and geometric mean of two observations are 20 and 12 respectively. Find the observations and harmonic mean of them.
 (5 marks each)

Chapter-26 : Measures of Dispersion, Skewness and Kurtosis 2009 - Dec [11] Answer the following:

Choose the correct option showing proper reasons/calculations.

- (f) If the variable x takes 20 values $x_1, x_2, \dots, x_{10}, -x_1, -x_2, \dots, -x_{10}$ such that = 40 then standard deviation of x is (i) 1, (ii) 2, (iii) 4, (iv) none of these. (3 marks)
- (g) If relation between 2 variables x and y is 2x + 3y = 5 and mean deviation of x values about mean is 9 for 10 observations, them sum of absolute deviations of corresponding 10 y-value about mean is (i) 90, (ii) 30, (iii) 6, (iv) none of these. (3 marks)
- (h) If for 10 values of x sum of deviations about 5 is 10 and sum of squares of deviations about 4 is 100 then variance of x is
- (i) 4, (ii) 6, (iii) 10, (iv) none of these. (3 marks)
 (i) If two samples of sizes 4 and 5 have same mean but different standard deviations 1 and 3 respectively then the standard deviation of the
 - combined sample is (i) , (ii) , (iii) , (iv) none of these. (3 marks)
- (j) If the mode, variance and coefficient of skewness of a frequency distribution are 100, 16 and 6 respectively then mean of the distribution is

(i) 124, (ii) 76, (iii) 108, (iv) none of these. (3 marks)

2009 - Dec [12] (a) Answer the following:

(i)	Find 1	the	mean	and	the	mean	deviation	about	mean	of	the	follov	ving
	frequency distribution:												
	TT 7 ' 1		• • •		50	-		~	< =		70	—	1

Weight (in kg) :	50	55	60	65	70	Total
No. of persons :	1	4	2	2	1	10
	((5 marks)				

2009 - Dec [12] (b) Write short note on the following.(ii) Skewness and its two important measures.

(4 marks)

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