

**I Semester M.B.A. – Technology Management, M.B.A. – Health Service
Management, M.B.A. – Financial Service Management
Examination, Dec. 2009/Jan. 2010
MANAGEMENT CONCEPTS
(Fresher)**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** sub questions. **Each** question carries **two** marks :

(2×5=10)

1. a) Define “grapevine” communication.
- b) What is organisation chart ?
- c) What is line and staff relationship ?
- d) What is meant by span of management ?
- e) What are the different types of leadership ?

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks :

(5×7=35)

2. Define ‘Bureaucracy’ as profounded by Max Weber.
3. Explain the characteristics of direction.
4. What are the types of motivation ?
5. What is effective co-ordination ?
6. What are the functions of a leader ?
7. What is the difference between choice making and decision making ?
8. What is division of work ? What are its advantages and disadvantages ?

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **ten** marks.

(2×10=20)

9. Explain Herzberg's motivation theory.
10. Compare the management principles of Henry Fayol with that of F. W. Taylor's.
11. Describe the essentials of a sound plan and different stages in the process of planning.
12. Define organisation and explain the different forms of organisations structure.

SECTION – D

Answer **any one** question. **Each** question carries **fifteen** marks :

(1×15=15)

13. Discuss the importance of motivation in business enterprises.
 14. "Policies are guides for managerial action". Discuss.
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**I Semester M.B.A. (Technology Management, Health Service Management,
Financial Service Management) Examination, December 2009/January 2010**
ORGANISATIONAL BEHAVIOUR
(Freshers)

Time : 3 Hours

Max. Marks : 80

SECTION – A

1. Answer **all** questions. **Each** question carries **two** marks. **(5×2=10)**
- a) Define organisational behaviour.
 - b) What is bonding ?
 - c) What do you mean by cohesive groups ?
 - d) Define personality.
 - e) Define leadership.

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks. **(5×7=35)**

- 2. State the various models of organisational behaviour.
- 3. Explain the determinants of organisational structure.
- 4. What are the indicators of the health of an organisation ?
- 5. State various approaches to decision making.
- 6. Explain the process of group formation.
- 7. State the causes and consequences of organisational conflicts.
- 8. List out the characteristics of effective leaders.
- 9. Explain the causes of perceptual distortions.

P.T.O.

SECTION – C

Answer **any two** of the following, **each** question carries **ten** marks. **(2×10=20)**

10. Explain various types of leadership.
11. What are attitudes ? How can they be formed, altered and measured ?
12. Explain the process of change management.
13. What do you mean by positive thinking ? How can it be developed ?

SECTION – D

Answer **any one** of the following. **Each** question carries **15** marks. **(15×1=15)**

14. Define emotional intelligence and explain its significance in organisations.
 15. “Strategy follows structure” – Discuss.
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**I Semester M.B.A. – Technology Management, M.B.A. – Health Service
Management, M.B.A. – Financial Service Management
Examination, Dec. 2009/Jan. 2010
LEGAL ASPECTS OF BUSINESS
(Fresher)**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** sub questions. **Each** question carries **two** marks. **(2×5=10)**

1. a) Define a cheque.
- b) What is an Agreement ?
- c) What does 'consensus-ad-idem' mean ?
- d) Define the term Net Neutrality.
- e) Who can be complainant ?

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks. **(7×5=35)**

2. Distinguish between bill of exchange and promissory note.
3. State the rules of a valid offer.
4. What are the rights of a consumer under Consumer Protection Act ?
5. Define a company and explain the features of a company.
6. What are the rights and duties of the seller in respect of the sale of goods ?
7. Explain the provisions made for the workers welfare in the Factory Act.
8. State the significance of E-Records and digital signatures in Government and its agencies.

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **ten** marks. **(10×2=20)**

9. Define free consent. Explain the various circumstances under which consent is not said to be free.
10. Describe the steps for incorporation of a company.
11. “All contracts are Agreements, but all Agreements are not contracts”. Explain.
12. What is Pledge ? What are the duties and rights of Bailor ?

SECTION – D

Answer **any one** question carrying **fifteen** marks. **(15×1=15)**

13. Explain in detail the need for right to information with respect to cyber law.
 14. ‘An agreement enforceable by law is a contract’. Discuss the essentials of a valid contract.
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**I Semester M.B.A. Technology Management, Health Service Management,
Financial Service Management Examination, Dec. 2009/Jan. 2010
ACCOUNTING FOR MANAGEMENT**

Time : 3 Hours

Max. Marks : 80

SECTION – A

1. Answer **all** sub-questions. **Each** question carries **two** marks : **(2×5=10)**
- a) What is profit volume ratio ?
 - b) Give two examples for inflow of cash.
 - c) Define operating cycle.
 - d) What is absorption costing ?
 - e) What is inflation accounting ?

SECTION – B

- Answer **any five** questions. **Each** question carries **seven** marks : **(7×5=35)**
- 2. How does ratio analysis help management in control ?
 - 3. Explain the significance and advantages of various budgets.
 - 4. What are the factors that influence working capital of a firm ?
 - 5. Distinguish between management accounting and financial accounting.
 - 6. Explain the various methods of depreciation.
 - 7. From the following information, compute funds from operations :

Profit and Loss Account			
	Rs.		Rs.
To Depreciation	1,00,000	By Gross profit	2,00,000
” Loss on sale of buildings	50,000	” Gain on sale of plant	20,000
” G/W written off	20,000		
” Discount allowed	10,000		
” Net profit	40,000		
	2,20,000		2,20,000

P.T.O.

8. Raju Brothers manufactures a product 'X'. It is estimated that for each ton of materials consumed, 100 articles should be produced. The standard price per ton of material is Rs. 10. During the first week of January 2006, 100 tons of materials were issued to production, the price of which was Rs. 10.50 per ton. Production during the week was 10,200 articles. Compute the variances.

SECTION – C

Answer **any two** questions. **Each** question carries **10** marks. **(2×10=20)**

9. Discuss the utility and significance of financial statements to various parties interested in the business concern.
10. What is responsibility accounting ? Explain the merits and demerits of responsibility accounting.
11. The following information are extracted from M & M Co. for the year 2008 :

	Rs.
Sales	10,00,000
Direct material	3,30,000
Direct wages	2,25,000
Manufacturing expenses (40% fixed)	2,50,000
Administration overheads (50% fixed)	1,00,000
Selling expenses (100% variable)	45,000

Required :

- a) Marginal cost statement b) Profit volume ratio
 c) Margin of safety d) Break-even point
 e) Sales required to earn a profit of Rs. 1,00,000.
12. Selected financial ratios for XYZ Ltd. are as follows :
- | | 2006 | 2007 | 2008 |
|--------------------------------|-------------|-------------|-------------|
| Current ratio | 4.2 | 2.6 | 1.8 |
| Acid test ratio | 2.1 | 1.0 | 0.6 |
| Debt to total assets | 23% | 33% | 47% |
| Inventory turn over (in times) | 8.7 | 5.4 | 3.5 |
| Average collection period | 33 days | 36 days | 49 days |
| Net profit margin | 3.8% | 2.5% | 1.4% |
| ROI | 12.1% | 6.5% | 2.8% |
| ROE | 15.7% | 9.7% | 5.4% |
- a) Why did return on investment decline ?
 b) Was the increase in debt a result of greater current liabilities or of greater long term debt ? Explain.

SECTION – D

Answer **any one** question carrying **15** marks :

(1×15=15)

13. Discuss in detail the various techniques of analysis and interpretation of financial statements.

14. Following are the Balance Sheets of Eshwar Ltd. as on 31-3-2008 and 31-3-2009 :

	2008	2009		2008	2009
	Rs.	Rs.		Rs.	Rs.
Equity capital	15,00,000	15,00,000	Fixed assets	23,36,960	24,60,500
Preference capital	3,00,000	4,00,000	Current assets	9,60,540	7,91,800
Share premium	30,000	40,000	Debenture discount	30,000	25,000
Debentures	5,00,000	5,00,000			
Current liabilities	6,20,000	4,40,000			
Provision for deprn.	1,80,000	1,95,000			
Provision for doubtful debts	6,000	5,000			
Profit and loss A/c.	1,91,500	1,97,300			
Total	33,27,500	32,77,300	Total	33,27,500	32,77,300

Other information :

- 1) During the current year, company has paid dividend of Rs. 1,50,000 relating to the previous year.
- 2) Rs. 1,00,000 preference share capital was issued during the current year at a premium of 10%.
- 3) During the year, machinery costing Rs. 2,00,000 (accumulated depreciation Rs. 60,000) was sold for Rs. 1,50,000.

You are required to prepare :

- a) A statement showing changes in the working capital.
- b) A funds flow statement.

**I Semester M.B.A. (Technology Management/Health Service Management/
Financial Service Management) Examination, December 2009/January 2010
COMMUNICATION SKILLS**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** sub questions. **Each** question carries **two** marks. **(2×5=10)**

1. a) What are the basic elements of communication ?
- b) Give an example for active and passive voice.
- c) Define memo.
- d) What is the purpose of reading ?
- e) What is a business report ?

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks. **(5×7=35)**

2. What is the importance of writing cover letters ?
3. Explain the purpose of statistical studies in business report writing.
4. What are different types of reading ?
5. List out the guidelines for thank you letters.
6. What are the different types of meetings ?
7. How will you ensure that your letter makes a good visual impression ?
8. Write a note on formal communication channels in an organisation.

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **ten** marks. **(2×10=20)**

9. There have been constant complaints from your customers about late delivery of goods and shortage in the goods supplied. As head of the dispatch section you have been asked to look into the matter and report with recommendation. Draft your report.
10. In your experience, what problems prevent you from listening efficiently in the classroom ? What do you plan to do to overcome them ?
11. Explain different models of communication.
12. Discuss the strategies of effective listening.

SECTION – D

Answer **any one** question. **Each** question carries **fifteen** marks. **(1×15=15)**

13. Compare the features of verbal and non-verbal communication. List three situations in your experience where you would prefer to use verbal communication and explain your reasons.
 14. Prepare a bio-data and covering letter for the following walk-in interview.
A leading bank is looking for MBA graduates for “management trainee” position walk in on 2 and 3 January, between 10 and 3 p.m., at 59, Axis Bank, double road, Kuvempunagar, Bangalore – 560009.
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**First Semester M.B.A. – Technology Management/Health Service
Management/Financial Service Management
Examination, December 2009/January 2010
MANAGEMENT INFORMATION SYSTEMS**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** sub-questions. **Each** question carries **two** marks.

(2×5=10)

1. a) What are the phases in the decision-making process ?
- b) What is data mining ?
- c) What is prototyping ?
- d) What is knowledge engineering ?
- e) What is hacking ?

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks.

(7×5=35)

2. Explain the function of transaction processing systems.
3. What are the benefits of online systems ?
4. Discuss the planning information needs of MIS.
5. What are the database requirements of information system ?
6. Discuss the development stages of an information system.
7. Describe the future trends in software quality assurance.
8. Discuss briefly the MIS security check list.

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **ten** marks.

(10×2=20)

9. Explain the application of expert systems and knowledge engineering in various fields.
10. Discuss the information security policy check list.
11. Explain the phases in the decision-making process of information system.
12. Describe the various database models in use.

SECTION – D

Answer **any one** question carrying **fifteen** marks.

(15×1=15)

13. Explain the stages in software development life cycle.
 14. Describe the implementation and maintenance of MIS.
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I Semester M.B.A. (F.E.) Examination, Dec. 2009/Jan. 2010
MACRO MONETARY ECONOMICS

Time : 3 Hours

Max. Marks : 80

SECTION – A

1. Answer **all** sub-questions. **Each** question carries **two** marks. **(2×5=10)**
- a) Define the law of demand.
 - b) What is income elasticity of demand ?
 - c) Define macroeconomics.
 - d) State the objectives of monetary policy.
 - e) What are the causes of inflation ?

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks. **(5×7=35)**

- 2. Explain the concept of production possibility frontier in macroeconomics.
- 3. Discuss the basis of market economics.
- 4. Describe the exchange rate policy in India.
- 5. What are the determinants of price elasticity of demand ?
- 6. What are monetary policy tools ?
- 7. Discuss the stance of fiscal policy.
- 8. What are the criteria for a sound fiscal policy ?

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **ten** marks.

(2×10=20)

9. Discuss the role of government in market economics.
10. Explain the factors affecting demand elasticity.
11. Explain the effects of government price controls.
12. Differentiate between monetary policy and fiscal policy.

SECTION – D

Answer **any one** question. **Each** question carries **fifteen** marks.

(1×15=15)

13. Explain monetary and fiscal policies in market economics.
 14. Discuss the various types of monetary policies.
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I Semester M.B.A. (F.E.) Examination, December 2009/January 2010
INDIAN FINANCIAL SYSTEM

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** sub questions. **Each** sub question carries **2** marks. **(2×5=10)**

1. a) Define bank failure.
- b) State any four types of mutual funds.
- c) What are prudential norms ?
- d) Give the meaning of debentures.
- e) Mention any two differences between Money market and Capital market.

SECTION – B

Answer **any five** questions. **Each** question carries **7** marks. **(7×5=35)**

2. Differentiate between real and nominal interest rates.
3. Write a note on exchange rate volatility.
4. Who uses spot rates and forward rates ? Why are ex-rates important ?
5. Give an account of general principles of bank management.
6. Explain the various functions of money.
7. Distinguish between forward contract and futures contract.
8. Explain the role of corporate governance in financial sector.

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **10** marks. **(2×10=20)**

9. Discuss the features of a developed money market and bring out its importance.
10. Describe the functions and powers of stock exchange.
11. Explain Gresham's Law.
12. Give an overview of the foreign exchange market and state the factors affecting it.

SECTION – D

Answer **any one** question. **Each** question carries **15** marks. **(1×15=15)**

13. Trace out the development of the financial system in India.
 14. List out the various money market instruments and state their advantages and disadvantages.
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I Semester M.B.A. (FE) Examination, Dec. 2009/Jan. 2010
STATISTICS AND ECONOMETRICS

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** sub-questions. **Each** question carries **two** marks. **(2×5=10)**

1. a) Define Econometrics.
- b) What is variance analysis ?
- c) Define conditional probability.
- d) Define central limit theorem.
- e) Define random variable.

SECTION – B

Answer **any five** questions. **Each** question carries **seven** marks. **(5×7=35)**

2. Explain methods of Moments. What are the advantages and disadvantages of this method ?
3. Describe the relation between statistics and probability.
4. What are the assumptions on which regression analysis is made ?
5. State the properties of variance.
6. Explain stationary random function.
7. The probability that a boy will get a scholarship is 0.9, and a girl will get is 0.80. What is the probability that at least one of them will get the scholarship ?

P.T.O.

8. In a random sample of 1000 persons from town A, 400 are found to be consumers of wheat. In a sample of 800 from town B, 400 are found to be consumers of wheat. Discuss the question whether the data reveal a significant difference between A and B so far as the proportion of wheat consumers is concerned.

SECTION – C

Answer **any two** questions. **Each** question carries **ten** marks. **(2×10=20)**

9. Explain the properties of a normal curve.
10. What is test of hypothesis ? Discuss type I and type II errors.
11. If three coins are tossed, find the expectations of the variance of the number of heads.
12. A sample analysis of examination results of 500 students was made. It was found that 220 students had failed, 170 has secured a third class, 90 were placed in second class and 20 got a first class. Are these figures commensurate with the general examination result which is in the ratio of 4 : 3 : 2 : 1 for the various categories respectively (χ^2 for 3 d.f at 5% level of significance is 7.81).

SECTION – D

Answer **any one** question. **Each** question carries **fifteen** marks. **(1×15=15)**

13. The following data relate to the yield of four varieties of cotton each sown on 3 plots. Find whether there is a significant difference between the mean yield of these varieties.

Varieties				
Plots	A	B	C	D
1	200	230	250	300
2	190	270	300	270
3	240	150	145	180

14. Discuss Chebyshev's inequality with examples.
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I Semester M.B.A. (FE) Examination, December 2009/January 2010
FINANCIAL ACCOUNTING AND BALANCE SHEET ANALYSIS

Time : 3 Hours

Max. Marks : 80

SECTION – A

1. Answer **all** sub questions. **Each** sub question carries **2** marks. **(2×5=10)**
- a) Define convention of full disclosure.
 - b) What do you mean by error of omission ?
 - c) What is Double entry system of book keeping ?
 - d) Define Business entity concept.
 - e) What are accounting standards ?

SECTION – B

- Answer **any five** questions. **Each** question carries **7** marks. **(7×5=35)**
- 2. Differentiate between financial accounting and managerial accounting.
 - 3. What is a trial balance ? What are its functions ?
 - 4. Briefly explain any four Balance Sheet Ratios.
 - 5. Who are the end users of accounting information ?
 - 6. Distinguish between horizontal and vertical analysis.
 - 7. Write a note on different types of errors.
 - 8. What do you mean by financial statement analysis ? What are its techniques ?

P.T.O.

SECTION – C

Answer **any two** questions. **Each** question carries **10** marks. **(2×10=20)**

9. Explain the various accounting conventions which influence the preparation of financial statements.
10. What are Subsidiary books ? Explain their significance.
11. Explain the merits and demerits of Ratio analysis.
12. Describe the rules with respect to posting of journal entries into ledger accounts with suitable examples.

SECTION – D

Answer **any one** question. Question carries **15** marks. **(1×15=15)**

13. Explain the different rules for journalizing the transactions with appropriate illustrations.
14. The following are the ledger account balances as on 31-03-2006. You are required to prepare Trading and Profit and Loss A/c and Balance Sheet as at that date :

Mr. Arun's Capital	1,08,090	Stock on 1-4-05	46,800
Sales	2,89,600	Sales returns	8,600
Purchases	2,43,000	Purchases returns	5,800
Carriage and freight	18,600	Rent and Taxes	5,700
Salaries and wages	9,550	Sundry Debtors	24,000
Sundry Creditors	14,800	Bank Loan @ 6%	20,000
Bank interest paid	900	Printing and Advertising	14,600
Income from investments	250	Cash at Bank	8,200
Discount allowed	7,340	Discount received	3,690

Investments	5,000	Furniture and Fittings	1,800
General expenses	3,600	Audit Fees	500
Insurance	800	Travelling expenses	2,310
Postage and telegram	800	Cash in hand	380
Bank Deposit @ 5%	30,000	Drawings	10,000
Bad debts	500	Bank Interest received	500
Reserve for bad debts	250		

Additional information :

- g) Stock in hand as on 31-03-2006 was Rs. 78,600.
- h) Depreciate Furniture and Fittings by 10%.
- i) Salaries outstanding Rs. 450 and Carriage outstanding Rs. 100.
- j) Insurance prepaid Rs. 200.
- k) Create reserve for bad debts @ 5% on debtors.
- l) Goods worth Rs. 2,500 were destroyed by fire, but the Insurance Company admitted the claim for Rs. 1,800 only.

I Semester M.Sc. (I.T.) Examination, Dec. 2009/Jan. 2010
ALGORITHM ANALYSIS AND DESIGN
(Freshers)

Time : 3 Hours

Max. Marks : 75

PART – A

I. Answer **all** the questions : **(10×2+5×1=25)**

- 1) Name the characteristics of algorithm.
- 2) List the points for designing an algorithm and implementing it as good program.
- 3) Compare static memory allocation with dynamic memory allocation.
- 4) What is a set ? List the set operations performed.
- 5) Write the efficiency of algorithm.
- 6) What do you mean by dynamic programming ?
- 7) Define minimum-cost spanning tree.
- 8) Write the important uses of external sorting.
- 9) What is finite automata ?
- 10) What is the difference between divide and conquer method and dynamic programming ?
- 11) Briefly explain the following :
 - a) Ambiguity in grammar
 - b) Alphabet
 - c) Null string
 - d) DFA
 - e) Abstract Data Type.

P.T.O.

PART – B

II. Answer **any five** questions :

(5×10=50)

- 1) How do you calculate the running time of a program ? Explain.
 - 2) Explain pointer implementation of list.
 - 3) Explain Divide and Conquer method of designing algorithms.
 - 4) Explain Prim's algorithm.
 - 5) What do you mean by backtracking ? Explain with example.
 - 6) Write the characteristics of external sorting. Why do we need it ? Explain with example.
 - 7) Explain NDFAs.
 - 8) Explain matrix-chain multiplication using dynamic programming.
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I Semester M.Sc. (I.T.) Examination, Dec. 2009/Jan. 2010
DISCRETE MATHEMATICS
(Freshers)

Time : 3 Hours

Max. Marks : 75

Instructions : 1) Answer *all* questions in Part – A.
2) Answer *any 5* questions in Part – B.

PART – A

- I. State whether the following statements are **true** or **false** : **(1×5=5)**
- a) Every positive integer can be written as the product of primes.
 - b) A graph is two colorable if and only if it contains no odd cycle.
 - c) If every node in a graph has degree atmost d, then the graph can be colored with d + 1 colors.
 - d) In the euclidean plane, every point has two coordinates.
 - e) If a graph has an odd number of nodes then it has a node with even degree.
- II. Answer the following : **(2×10=20)**
- 1) What is symmetric difference of 2 sets A and B ? Write it with the help of Venn diagram.
 - 2) n boys and n girls go out to dance. In how many ways can they all dance simultaneously. (Assuming the only couples of mixed gender dance with each other.)
 - 3) Prove that sum of first n positive integers is $n(n + 1)/2$.
 - 4) Explain stirlings formula.
 - 5) Prove that F_{3n} is even.
 - 6) Write a short note on finite geometry.
 - 7) Write Eulers formula for n polygons and explain the terms.
 - 8) Into how many parts do 2 quadrilaterals divide the plane if they are convex ?
 - 9) Write sets having cardinality (a) 13 (b) 15.
 - 10) What is graphs ? Give an example.

P.T.O.

PART – B

(5×10=50)

1. De Morgan's law say that $\sim (p \vee q) \approx \sim p \wedge \sim q$. Write a truth table to demonstrate the truth of De Morgan's law.
 2. Prove that each row of Pascal's triangle starts and ends with 1.
 3. Explain equivalence and implication with examples.
 4. Describe Hamiltonian cycles with examples.
 5. Write a note on public key cryptography.
 6. Explain with an example the concept of coloring graphs with many color.
 7. Explain the law of large numbers in detail.
 8. Explain in detail "Eulerian Walk".
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I Semester M.Sc. (I.T.) Examination, Dec. 2009/Jan. 2010
ADVANCED RDBMS
(Freshers)

Time : 3 Hours

Max. Marks : 75

***Instruction** : Answer **all** questions from Part A, and answer **any five** questions from Part B.*

PART – A

1. Distinguish between weak and strong entity. **(10×2+5×1=25)**
2. Define relationship.
3. What is relational calculus ?
4. What is EER model ?
5. What are structure type ?
6. List the different types of concurrency control.
7. Write the disadvantages of ORDMS.
8. What are spatial databases ?
9. List the major issues of datamining.
10. Who are stake holders ?
11. Briefly explain the following :
 - a) Overlap constraint
 - b) ODMG
 - c) Data warehouse
 - d) Datamining query language
 - e) Datamart.

P.T.O.

PART – B

Answer **any five** :

(5×10=50)

1. How are entities classified ? Explain various types with example.
 2. Explain relational and object oriented databases.
 3. What are structure types ? Explain OQL.
 4. With the help of diagram, explain various types of parallel system architecture.
 5. Explain the following relational algebra operations with example :
 - i) Selection
 - ii) Projection
 - iii) Union
 - iv) Natural join.
 6. Explain general directory system project.
 7. Explain the classification of datamining system.
 8. Explain datamodel quality along with its factors and concepts.
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I Semester M.Sc. (I.T.) Examination, December 2009/January 2010
COMPUTER PROGRAMMING
(Freshers)

Time : 3 Hours

Max. Marks : 75

***Instruction** : Answer **all** questions from Part A and answer **any five** questions from Part B.*

PART – A

(10×2+5×1=25)

1. What is Algorithm ?
2. What are data types in C ?
3. What is Loop ?
4. Differentiate Array and Structure.
5. What is Searching ?
6. What is Pointer ?
7. What is Function ?
8. How to declare the structure in C ?
9. What is Data structure ?
10. What is Tree ?
11. Define the following :
 - a) Asymptotic notations
 - b) Tokens
 - c) Recursion
 - d) File
 - e) Graph.

P.T.O.

PART – B

Answer **any five** :

(5×10=50)

1. Explain in detail conditional statements used in C.
2. Explain the memory map of two dimensional Array.
3. Write a program in C add the two Square matrices.
4. Explain with suitable example “Call by Value” and “Call by Reference”.
5. What is complexity of the Program ? Calculate complexity of Fibonacci Series.
6. Write a Program in C to insert a node at the beginning of a Linked list.
7. Explain the operations performed on Files.
8. Write program in C to sort a given set of data using Selection sort.
