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VENKATTESH. B. IYER
B. N. Bandodkar. College (07-09 Batch)

Con/1391-07. OT-5843

(3 Hours) [Total Marks : 75

N.B. : (1) Attempt any five questions.
(2) Figures to the right indicate full marks.
(3) Answers to the two sections must be written in separate answer-books. and should be submitted separately.

Section I

Q. 1 a What is operational systems and informational systems? Compare their characteristics. 8

b What is CRM (Customer Relationship Management)? How can you make your data warehouse CRM-ready? 7

OR

Q. 2 a Discuss the data flow in data storage. List the functions and services of in data storage area. 8

b Describe the slowly changing dimensions. What are the types of slowly changing dimension? Explain each in brief. 7

Q. 3 a What are hypercubes? How do they apply in an OLAP system? 8

b When is a Pilot data mart useful? 7

OR

Q. 4 a Discuss the various data mining tasks. 8

b Describe K-Mean Clustring algorithm in detail. 7

Q. 5 a Discuss Apriori algorithm in detail. 8

b Discuss in detail Web usage mining. 7

OR

Q. 6 a Describe any one Distance based algorithm for classification. 8

b Write note on Pattern matching. 7

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SECTION – II

7. a. Explain the need for Enhanced Entity Relationship model. Explain Specialization, Generalization and Categorization with examples. 7
b. Explain Type hierarchy and Inheritance in context with Object oriented database systems. 8

OR

8. a. Explain the following with respect to object query language: 7
i. Query results and path expressions
ii. Extracting Single Elements from Singleton Collections
iii. Database Entry points and Iterator Variables
b. With respect to object oriented databases explain Polymorphism, Multiple Inheritance, Selective Inheritance, Versions and Configurations. 8

9. a. Compare Relational, object oriented and object relational database systems. 7
b. What are the different ways of partitioning the data? Explain with examples. 8

OR

10. a. Discuss the implementation issues for extended type systems. 7
b. Compare parallel and distributed technologies. What are the advantages of distributed databases? 8

11. a. What is a document type definition? What is a document schema? What are the advantages of document schema over document type definition? 7
b. Enumerate the features of spatial databases. What are spatial queries? How are they categorized? Explain each category. 8

OR

12. a. What is an active database? What are its drawbacks? How is reactive behavior specified in the database? Explain giving examples. 7
b. What type of spatial analysis is possible with Geographic Information System? Explain. 8

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