

- (b) Write in brief about the concept of digital library.

9. Write short notes on the following :

- (a) Data warehousing
(b) Spatial database

Roll No.

57535

**B.B.A. 4th Semester
(N.S.) 2014-2017**

**Examination-May, 2016
Database Management System**

Paper-BBAN-405

Time : 3 hours

Max. Marks : 50

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt all five parts of the question in section-A. Attempt four questions selecting one question from each unit in section-B. All questions carry equal marks.

Section-A

1. Explain the following :

- (a) Database management system

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- (b) Relational data model
- (c) Difference between schema and subschema
- (d) Database recovery
- (e) Multimedia database

Section-B

Unit-I

- 2. (a) How the database system approach is superior to file-oriented system?
- (b) Bring out the role of database administrator in managing a database system.
- 3. (a) Explain the meaning of data, information, record and file, taking suitable examples.
- (b) What is data dictionary? Explain in brief its utility in database management system.

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Unit-II

- 4. (a) Explain different levels of architecture of database system with the help of a neat diagram.
- (b) Clarify meaning of the term 'data independence' and discuss the logical and physical data independence.
- 5. Discuss network data model taking suitable example. What are its advantages and disadvantages?

Unit-III

- 6. What are major threats to database management system? What techniques are employed in securing the databases?
- 7. What do you mean by distributed database? Discuss in brief benefits and problems of distributed database system.

Unit-IV

- 8. (a) How does data mining help business organizations to get a competitive edge?

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