

Roll No.

- (b) Web databases
9. (a) What are the steps involved in data mining process ?
- (b) Why are data warehouses prepared ?

57535

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

**Examination- May, 2017
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 : Section-A is **compulsory**. Attempt **one** question from each unit in Section-B. All questions carry equal marks.

SECTION-A

1. (a) Differentiate File systems and Database management system.

57535-3600-(P-4)(Q-9)(17) (4)

57535-3600-(P-4)(Q-9)(17) (1)

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- (b) Define attribute and strong entity.
- (c) Distinguish between integrity and security.
- (d) What is an instance? What is a schema?
- (e) What is a multimedia database ?

SECTION-B

UNIT-I

- 2. (a) Distinguish between data and information.
- (b) What are the advantages of database management system ?
- 3. How differently the data resources of information systems are typically organized in database system ? Explain the characteristics of database approach.

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UNIT-II

- 4. Discuss the major components of DBMS architecture and describe their functions with neat diagram.
- 5. Explain the difference between Logical and physical data independence ?

UNIT-III

- 6. What is distributed database ? What are the components of a distributed database system ? Explain with the help of a diagram.
- 7. List and discuss the different issues related to database security. Describe the counter measures to database security threats.

UNIT-IV

- 8. Write detailed notes on the following :
 - (a) Mobile databases

57535-3600-(P-4)(Q-9)(17) (3)

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