

Roll No. ....

**57535**

**BBA 4th Semester (N.S.) 2014-17**

**Examination – July, 2022**

**DATABASE MANAGEMENT SYSTEM**

Paper : BBAN-405

*Time : Three Hours ]*

*[ Maximum 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 examination.*

**Note :** Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. (a) Define the term Data and Information. 2
- (b) What are the different types of database system ? 2
- (c) What is firewalls ? 2
- (d) What is spatial database system ? 2
- (e) What is Data Warehouse ? 2

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### UNIT – I

2. What is Database System ? What are the advantages of a Database System over File-Oriented System ? 10
3. Explain the following : 5 + 5 = 10
  - (i) Data Dictionary
  - (ii) Role of DBA

### UNIT – II

4. (a) What is Database independence and why is it important ? What is difference between logical and physical data independence ? 6
- (b) Explain the following : 4
  - (i) Schema
  - (ii) Sub schema
  - (iii) Instance
  - (iv) Mapping
5. Define the term Data Model. Explain different types of data models briefly. 10

### UNIT – III

6. (a) What is Distributed Database System ? Describe the various feature of Distributed Database System. 5
- (b) What are the threats to database and how to mitigate them ? Explain. 5

7. What is Database Recovery ? Explain various database recovery technique. 10

**UNIT – IV**

8. Explain the following : 5 + 5 = 10
- (i) Multimedia Database
  - (ii) Digital Libraries
9. What is Data Mining ? Describe the benefit and purpose of data mining. 10
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