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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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