Roll No. ....

Sub. Code : | 0 | 8 | 9 | 7 |

Exam. Code : | 0 | 0 | 2 | 4 |

Bachelor of Business Administration 4ᵗʰ Semester

1046

DATABASE MANAGEMENT SYSTEM

Paper : BBA-226

Time Allowed : Three Hours]   **[Maximum Marks : 80**

SECTION–A

(Attempt any four questions)

1. Who is a DBA ? What are the responsibilities of a DBA ?

2. What is a data model ? List the types of data model used.

3. What are the disadvantages of file processing system ?

4. What is data security ? Discuss the theats and risk involved in database security.

5. Define the following terms :

    (a) Tuple

    (b) Domain

    (c) Relation

(d)   Entity

(e)   Regular entities.

6.   What are the drawbacks of file oreinted system ?   4×5=20

SECTION–B

Attempt any two questions

7.   Explain the following operators with suitable examples :

(i)   Union

(ii)   Intersection

(iii)   Divison   15

8.   (i)   What is E-R model ? What are the various symbols used to draw E-R diagram ?   7

(ii)   Draw E-R diagram of the following organizations :

(a)   Public Library

(b)   Educational Insititure.   8

9.   (a)   Briefly explain about Client Server architecture.   7

(b)   What are the advantages and disadvantages of Distributed Database ?   8

10.   (a)   Differentiate Relational Algebra and Relational Calculus.   7

(b)   Discuss Tuple-oriented relational calculus by taking a suitable example.   8

SECTION–C

Attempt any two questions

11.   Consider the following table :

Employee (Emp_Name, Dept, Name, Salary)

Write the SQL statements for the following :

(i)   Find the employee name who is getting lowest salary.

(ii)   Find the department name which has highest everage salary.

(iii) Find all the departments where more than 60 employees are working.   5×3=15

12.   Discuss normalization. Explain first normal form, second normal form, third normal form with suitable examples. Also define and explain functional dependency.   15

13.   (a)   What is Database intengirty ? List the Database integrity rules.
                                                                      7

      (b)   Explain the various types of security threats that adversely affect the database system.   8

14.   (a)   Differentiate between DDL and DML.   7

      (b)   Discuss the data types used in Oracle with suitable examples.
                                                                      8