

[Total No. of (i) Printed Pages 3 (ii) Questions 14]

Sub Code : 0884 (1048)

Exam Code : 0024

Exam : Bachelor of Business Administration
4th Semester

Subject : Database Management System

Paper : BBA-226

Time : 3 Hours

Maximum Marks : 80

SECTION - A

Note : Attempt any **four** questions.

4×5=20

1. Explain the types of DBMS users.
2. What are Integrity Constraints ?
3. Discuss the operations of Relational Algebra.
4. Explain the need for Normalization.
5. What is Database Security ?
6. Define Attribute, Tuple and Domain.

P.T.O.

SECTION - B

Note : Attempt **any two** questions.

7. Explain the Three Tier Architecture of DBMS. 15
8. (a) Explain the Hierarchical Data Model. 7
(b) Illustrate the symbols of E-R Diagram. 8
9. (a) Draw E-R diagram for Customer Management in Travel Agency. 7
(b) Explain the different types of Keys. 8
10. (a) What is Data Independence ? 7
(b) Differentiate between Relational Algebra and Relational Calculus. 8

SECTION - C

Note : Attempt **any two** questions.

11. What is Normalization ? Explain first, second and third normal form using suitable examples. 15

12. What is DDL ? Explain the DDL commands to Create, Alter, Delete and Rename a Table using an example. 3+12=15

13.(a) Difference between Database Security and Database Integrity. 7

(b) Discuss the Data Recovery Techniques. 8

14.(a) What is Functional Dependency ? 7

(b) Explain the various Threats to Database. 8