

(i) Printed Pages : 3 Roll No.

(ii) Questions : 14 Sub. Code :

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Bachelor of Business Administration 4th Semester
1059

DATABASE MANAGEMENT SYSTEM

Paper-BBA-226

Time Allowed : 3 Hours] [Maximum Marks : 80

SECTION-A

(Attempt any **four** questions)

1. Explain three Tier architecture of DBMS.
2. What are the differences between DDL and DML commands ?
3. Explain basic operations of Relational Calculus.
4. Explain difference between Security and Integrity.
5. Explain the use of Grant and Revoke command with syntax and example.
6. Explain features of RDBMS. 4×5=20

SECTION-B

(Attempt any **two** questions)

7. (a) Difference between Database and File Oriented System. 7
- (b) What are the various advantages and disadvantages of DBMS ?

8

8. (a) Explain Client Server Architecture in detail. 7
- (b) What are the various operations that can be done on Relational Algebra ? 8
9. Explain Hierarchical, Network and Relational model in detail. 15
10. (a) Explain difference between Relational Calculus and Relational Algebra. 7
- (b) What are the basic operations of Relational Calculus ? 8

SECTION-C

(Attempt any **two** questions)

11. What is Normalization ? Explain first, second and third normal form in detail. 15
12. (a) What are the various threats to the database in an organisation ? 7
- (b) Discuss Database Failures and Recovery techniques in detail. 8
13. (a) What is Database Integrity ? Explain various integrity rules. 7
- (b) Discuss various data types that are used in Oracle with example. 8

14. Consider the following table :

Student (Student_Name, Rollno, Age, Marks, Subject)

Write the SQL statements for the following :

- (a) List the Students whose name starts with alphabet 'S' and age is 20.
- (b) Find the name of the student who has scored highest marks.
- (c) Find the students who are studying the same Subject.

5×3=15