

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CSE) (Sem.-5)
DATABASE MANAGEMENT SYSTEM
Subject Code : CS-305
M.Code : 56525

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A**Write briefly :**

- 1) Write advantages of DBMS?
- 2) Discuss schemas and instances?
- 3) What are records and files?
- 4) Define entry sets?
- 5) Give function of Joins?
- 6) What is DML?
- 7) Discuss different keys?
- 8) Define the database security?
- 9) What are views in SQL?
- 10) Define granularity in database?

SECTION-B

- 11) Describe different types of databases and database languages?
- 12) Write the importance of ER diagram by taking a suitable example?
- 13) What are uses of update statements in SQL? Give example?
- 14) Give the concept of second and third normal forms?
- 15) What is shadow paging in database recovery technique?

SECTION-C

- 16) What are data models in DBMS? Discuss the uses of Data Base Management System?
- 17) What is Relational Algebra? Explain various operators used in relational algebra?
- 18) What is transaction? Mention the desirable properties of a transaction? Discuss about transaction recovery techniques?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.