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B.Tech.(CSE/IT) (Sem.–5) DATABASE MANAGEMENT SYSTEM Subject Code : CS-305 Paper ID : [A0466]

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

- **l.** Write briefly :
 - a. Define data independence.
 - b. What is a strong entity?
 - c. Define primary key.
 - d. Define views.
 - e. What is the need of DBMS?
 - f. What is a functional dependency?
 - g. What is a relational database?
 - h. Define ACID property.
 - i. Define serilizability.
 - j. Define shadow paging.

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SECTION-B

- 2. Explain various components of DBMS with diagram.
- 3. Explain data abstraction with three layers. Why is it important?
- 4. Construct an ER diagram for a hospital management system with a set of patients and doctors. With each patient a series of various tests and examinations are conducted. On the Bases of preliminary report patients are admitted to a particular specialty ward.
- 5. Discuss various data manipulation functions and aggregate functions.
- Explain third normal form with suitable example. 6.

SECTION-C

- rpaper. cot Explain the various functions of relational algebra with example. 7.
- 8. Discuss various locking techniques for concurrency control.
- 9. Write a note on database security.