

# CBCS SCHEME

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18BM731

## Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Database Management System in Healthcare

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. What are the advantages of using DBMS approach? (10 Marks)  
b. Explain the classification of database management systems. (10 Marks)

OR

- 2 a. Discuss briefly about the computer based patient record. (10 Marks)  
b. Write a brief note on queries in a DBMS. (10 Marks)

### Module-2

- 3 a. Explain the high level conceptual data models for database design. (10 Marks)  
b. Discuss about the relationship types and relationship sets and instances. (10 Marks)

OR

- 4 a. Write a note on relational database and relational and relational database schemas. (10 Marks)  
b. Explain SELECT operation briefly. (10 Marks)

### Module-3

- 5 a. Explain DIVISION operation. (10 Marks)  
b. Write a note on specifying constraints in SQL. (10 Marks)

OR

- 6 a. Explain the SELECT FROM WHERE structure of basic queries in SQL. (10 Marks)  
b. Describe the additional features of SQL. (10 Marks)

### Module-4

- 7 a. Elaborate the imparting clear semantics to attributes in relations. (10 Marks)  
b. Explain Boyce – Codd normal form. (10 Marks)

OR

- 8 a. Write a note on relation decompositions and unsufficiency of normal forms. (10 Marks)  
b. Describe inclusion dependencies. (10 Marks)

### Module-5

- 9 a. Explain lock based currency control. (10 Marks)  
b. Write the introduction to crash recovery. (10 Marks)

OR

- 10 a. Explain briefly about dealing with deadlocks. (10 Marks)  
b. Discuss recovering from a system crash. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.