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II Semester B.C.A. Degree Examination, September - 2023

COMPUTER SCIENCE

Database Management System

(NEP Scheme)

Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

Answer any **Four** questions from **each** section.

SECTION - A

Answer any **Four** questions. Each question carries **2** marks.

(4×2=8)

1. Define DBMS.
2. What is data model?
3. What is weak entity and strong entity?
4. Define Views in SQL.
5. Define Transaction.
6. List different data types in SQL.



SECTION - B

Answer any **Four** questions. Each question carries **5** marks.

(4×5=20)

7. Explain Relational model with advantages and disadvantages. (5)
8. Explain the Role and Responsibility of DBA. (5)
9. Describe different uses behind DBMS. (5)
10. What is ER diagram? Explain its different notations. (5)
11. What is an attribute? Explain different types of attributes with example. (5)
12. Explain different DDL commands with example. (5)

[P.T.O.]



SECTION - C

Answer any **Four** questions. Each question carries **8** marks.

(4×8=32)

13. Explain three schema architecture with a neat diagram. (8)
 14. Explain with example different types of DBMS relationship. (8)
 15. What is Normalization? Explain any two types of Normal forms with examples. (8)
 16. Construct an ER-diagram for Employee Data base with 3 entities and 3 attributes for each entity. Specify the cardinality ratio on each of the relationships existing between entities. (8)
 17. Describe different states of transaction with a neat diagram. (8)
 18. Discuss different types of Joins in SQL. (8)
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