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Reg. No.

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III Semester B.C.A. 6 (NEP) Degree Examination, December/January - 2024-25

**DATABASE MANAGEMENT SYSTEM**

**(Regular/Repeater)**

**Time : 2 Hours**

**Maximum Marks : 60**

**Instructions to Candidates :**

- 1) All sections are compulsory.
- 2) Draw diagrams wherever necessary.

**Section - A**

Answer any **ten** of the following

**(10×2=20)**

1. Define database.
2. What is meant by redundancy?
3. Name the four categories of end users .
4. What is the role of DBA?.
5. What is meta data?
6. What is meant by domain of an attribute.
7. State different meanings of Null value.
8. What is primary key and Foreign key?
9. List the four informal measure of quality for relational schema design.
10. What is single user and multiuser system?
11. Name the problems that may occur wrt concurrent transaction.
12. What are the two concurrency control techniques(Protocols)?

**Section - B**

Answer any **four** of the following.

**(4×5=20)**

13. Define DBMS. Explain the four functions of DBMS.
14. Draw any Ten notations (Symbols) used in ER diagram & State their meaning.

**[P.T.O.]**



15. Briefly explain relational algebra operation UNION , INTERSECTION and MINDS.
16. Explain the four design guidelines for relational schema.
17. Draw a state transition diagram, illustrating the states for transition execution and explain.

**Section - C**

Answer any **two** of the following.

**(2×10=20)**

18. a) Discuss various DBMS languages. (5)  
b) Explain in brief fire types of attributes. (5)
  19. a) Write note on aggregate functions. (5)  
b) Explain in brief 1NF and 2NF. (5)
  20. a) Explain any four characteristics of database approach. (5)  
b) Explain three schema architecture.
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