

BSc DEGREE END SEMESTER EXAMINATION - JULY 2021
SEMESTER 4 : COMPUTER APPLICATION
COURSE : 19U4CRCAP8 ; DATABASE MANAGEMENT SYSTEM
(For Regular - 2019 Admission)

Time : Three Hours

Max. Marks: 75

PART A

Answer All (1 mark each)

1. Define Rolename.
2. What you mean by End users?
3. What you mean by Network data model ?
4. Define degree.
5. What you mean by domain constraints?
6. What is the use of JOIN operator?
7. What is transitive dependency ?
8. What you mean by non trivial Functional dependency?
9. What you mean by a read-only transaction?
10. Define Lost Update Problem.

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. Differentiate total and Partial Participation.
12. Differentiate Binary Relationship and Ternary relationships
13. Define weak entity and strong entity sets?
14. Differentiate Single valued and multivalued attributes
15. Explain about Domain relational calculus?
16. Differentiate Group by and Order by clause
17. What is the difference between Char and Varchar datatypes in SQL?
18. Explain about 2NF.
19. what you mean by Secondary index ?
20. What is data warehouse with examples.

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. Explain about Three-schema Architecture
22. Explain about different Classification of dbms.
23. Explain about different types of integrity constraints?
24. Explain the working of union, intersection and except operations?
25. Explain about different anomalies.
26. If $X \rightarrow Y$ in R, this does not say whether or not $Y \rightarrow X$ in R. Explain it with examples.
27. What are the different types of failures in transaction?

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. What is the use of ER Diagram and Draw an ER diagram for a banking enterprise
29. 3 Explain about relational algebra?
30. Write short note on SQL with DDL and DML Commands.
31. Explain normalization with Informal Design Guidelines for Relation Schemas.

(12 x 2 = 24)