Reg. No. : | | | | | | | | | | | |

Question Paper Code : AK7284

M.C.A (2 years) DEGREE EXAMINATION, FEBRAUARY/MARCH 2023
Third Semester
DMC6103 - Advanced Database Technology
(Regulations 2018)

Max Mark : 100. **Time : 3 hrs.**

SECTION A (10 X 2 = 20 Marks)

Answer any 10 Question

1. What are the three levels of architecture?
2. What are DBMS and RDBMS?
3. Define: Data Dictionary.
4. Define Data Abstraction and list the levels of Data Abstraction.
5. What is conceptual level of architecture?
6. Define Data Independence.
7. Define entity and entity set.
8. Define DBMS.
9. Define relationship and relationship set.
10. What is are Basic Components of a DBMS?
11. What is Transaction?
12. Write about the role of Storage manager.

SECTION B (5 X 7 = 35 Marks)

Answer any 5 Question

13. How relationships are defined in DBMS?
14. Write a note and list down the aggregation operators
15. Discuss briefly how to set toolbars to our working style.
16. Give the purpose of data dictionary.
17. Mention the salient features of relational data model.
18. Write short notes on data types.
19. Write about database tasks by development stages.

SECTION C (3 X 15 = 45 Marks)

Answer any 3 Question

20. What are the Data Integrity constraints?
21. What is Normalization? Explain about 1NF, 2NF, 3NF, 4NF, 5NF and BCNF forms.
22. Write notes on different types of joins.
23. What are keys in DBMS? Explain their types.
24. Explain about Database Administrator.

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