Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐ Total No. of Pages : 02

Total No. of Questions : 18

M.Sc. (IT) / MCA / PGDCA (2019 Batch) (Sem.–1)
RDBMS
Subject Code : PGCA-1904
M.Code : 76974

Time : 3 Hrs. Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

Answer the following questions in brief :

1. What is data mining?

2. What are the different types of languages which are available in the DBMS?

3. What is the difference between Primary key and Candidate key?

4. What are specialty databases?

5. How to ensure data recovery?

6. What are the differences between DROP, TRUNCATE and DELETE commands?

7. What is the meaning of an entity in ER diagram?

8. What are ACID properties in DBMS? List each one.

9. What is the difference between embedded SQL and dynamic SQL?

10. What is meant by integrity constraints?

SECTION-B

11. Explain the three-schema architecture with reference to data independence in DBMS Justify your answer properly.

12. Discuss in detail :

    a) Database storage

    b) Database indexing and retrieval

13. Explain the concept of transaction management in DBMS using a real life example. Why conflict serializability is important?

14. Discuss various aggregate functions available in SQL Also throw some light on the concept of join expressions.

SECTION-C

15. Explain the following :

    a) Schema

    b) View

    c) Instance

    d) Null values

    e) Foreign key

16. Why normalization is required? Explain various normal forms available in DBMS in detail.

17. What are the features of a good relational design? Explain by citing instances.

18. Discuss various concurrency control techniques in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.