Roll No ....

MCADD-603
M.C.A. (Integrated), VI Semester
Examination, May 2023
Advanced DBMS
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is a persistent programming language in DBMS?

   b) Explain the Architecture of Object Oriented and Object Relational databases in detail with a suitable diagram.

2. a) What are Recursive queries? Explain with a suitable example.

   b) What is Query processing? Discuss its phases.

3. a) What are Transaction Processing Monitors (TPM)? Discuss its components along with it's working.

   b) What is Multiversion two-phase locking? Explain with an example.

4. a) What do you mean by concurrency control transaction? Explain its scheduling techniques.

   b) What is a Trigger in SQL Server? Explain its types.

5. a) Give a brief note on the Image and Multimedia Database.

   b) What is the difference between KD Trees, R-Trees and Quadtrees?

6. a) What is the difference between DB2 Vs Oracle XXI?

   b) Which techniques are used for parallel query evaluation? What are the features of a parallel database?

7. a) Describe normalization using join dependency with the help of an example?

   b) What do you understand by query optimization? What are query trees? Explain with an example.

8. Write short notes on any four of the following:
   a) Web Server
   b) Recursive query processing
   c) Multilevel transaction
   d) Content-based retrieval
   e) ECA Rule

******