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Roll No. _____

3C7134

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M.C.A. III - Sem. (Main/Back) Exam., Feb.-March -2021

MCA-304A Advanced Database System

Time: 2 Hours

[To be converted as per scheme]

Max. Marks: 60

Min. Marks: 24

Instructions to Candidates:

Question no. one is compulsory. Attempt any two question out remaining question number 2 to question no.5

Use of following supporting material is permitted during examination. (Mentioned in form No.205)

1. NIL

2. NIL

Q.1 Answer the following questions in one to two sentences -

[20]

- What are the complex data types?
- Define Reference data type.
- What is vertical fragmentation?
- Define Commit protocol.
- What is Data Skew?
- What is parallel database sort?
- Define Precompiles in SQL.
- What is character set?
- What is Web based system?
- Define Mobile Database.

Q.2 Answer the following questions in 50 words -

[20]

- What are the components of object oriented data model?
- Explain the architecture of Distributed Database.
- What is Inter-query Parallelism?
- Describe the sequential control statements in PL/SQL.
- Discuss various components of Multimedia Database.

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Q.3 Answer the following questions in 150 words - [20]

- (a) What are the advantages and disadvantages of object oriented data model?
- (b) Explain Homogeneous distributed database with example.
- (c) Explain different types of database parallelism.
- (d) Explain the Data types in PL/SQL.
- (e) What are the characteristics of XQuery?

Q.4 Answer the following questions in detail - [20]

- (a) What is Inheritance? Explain different types of Inheritance.
- (b) What is a package in PL/SQL? Explain the package specification and package body with example.

Q.5 Write short notes on the following - [20]

- (a) What are the advantages and disadvantages of persistent programming language?
- (b) Explain the different types of Data Replication with their advantages.
- (c) Write down the steps to execute XQuery.

OR

- (a) Explain the design of Parallel Database system.
- (b) Explain the Recursive queries with the help of a program.

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