

Roll No.

67174

MCA 4th Semester (Non CBCS Scheme) Examination – May, 2019

ADVANCED DATABASE SYSTEMS

Paper : MCA-404

Time : Three Hours] [Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting at least one questions from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

- 1. (a) What is object identity ? Explain with example.
(b) What do you mean by persistent programming language ? Explain.
(c) What are nested relations ? Give example
(d) State and explain any two query equivalence rules.
(e) Explain semi-join operation in brief.

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- (f) Describe vertical data fragmentation with example.
(g) What is a trigger ? What its types ?
(h) Why we need XML ? 16

UNIT - I

- 2. List the various data abstraction concepts and the corresponding modeling concepts in the EER model. 16
3. Explain the following with examples : 16
(i) Participation Constraints
(ii) Encapsulation of operations
(iii) Type hierarchies
(iv) Type constructors

UNIT - II

- 4. What is semantic query optimization ? Explain in detail. 16
5. (a) Describe the main components of information retrieval system. 8
(b) Describe Applications of Decision Support Systems in detail. 8

UNIT - III

- 6. Describe the architecture of parallel databases in detail. 16

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7. Describe 3 phase commit protocol in context of recovery mechanism in Distributed DBMS. 16

UNIT – IV

8. Describe Semi-structured data model and various issues related to it. 16
9. Write short notes on : 16
- (a) Multimedia database
 - (b) Spatial Database

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