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Question Paper Code : 10767

M.E./M.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

First Semester

Computer Science and Engineering

IF 5191 — ADVANCED DATA BASES

(Common to M.E. Multimedia Technology/M.E. Software Engineering/
M.Tech. Information Technology)

(Regulation 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between single valued and multi valued attribute.
2. Give example for Inter-query parallelism.
3. Why do we need temporal database?
4. How to implement Spatial relationship?
5. What is Normalisation?
6. State the use of DTD in XML.
7. What is Hand off Management?
8. Define Vector data with its type.
9. How to store image Database?
10. Give the need for Multimedia Database Design.

PART B — (5 × 13 = 65 marks)

11. (a) (i) With the help of a neat diagram, explain the client-server architecture. (8)
- (ii) Compare inter-operation and intra-operation parallelism with example. (5)

Or

- (b) (i) Detail about the commit protocol used in distributed databases. (8)
(ii) Is Data replication advantages or disadvantages? Justify your answer. (5)
12. (a) (i) Give any two examples for recursive queries in SQL. (5)
(ii) Give all Spatial Data Type and explain any one Spatial access method. (8)

Or

- (b) (i) Write a brief note on deductive databases. (5)
(ii) Explain spatial R-tree index and define the arrival of fence from it. (8)
13. (a) Explain how querying and retrieval are handled in XML. (13)

Or

- (b) With neat diagram brief on XML Class Generator for Java. (13)
14. (a) How to invoke, rollback and apply ACID property in Nested transaction model.

Or

- (b) What is timestamping and how to enforce serialization by rolling back?
15. (a) With neat diagram explain Multimedia storage view.

Or

- (b) Discuss on storage representation of Multimedia Database in Oracle.

PART C — (1 × 15 = 15 marks)

16. (a) Derive the relation using Multi-model Semantics and Document Approach with its advantages.

Or

- (b) How to Link a Database to a Web Page? Do step by step analysis process with scripting language.