QP Code : **17804**

[3 Hours]   [Total Marks:80

N.B. : (1)   Question No. 1 is **compulsory**.
       (2)   Attempt any **four** from remaining six questions.

1. (a) Write a note on data partitioned parallelism.   5
    (b) Write a note on nesting and unnesting.   5
    (c) Write a note on asynchronous replication in distributed databases   5
    (d) Differentiate between Datawarehouse Vs Datamarts   5

2. (a) Define OLAP. Explain MOLAP and ROLAP with suitable diagrams.   8
    (b) What are the different complex data types available in ORDBMS? Explain   7
         with example.

3. (a) Explain concurrency control and recovery in Distributed Database   8
         Management System.
    (b) Explain the features of XML and also differentiate XML with HTML.   7

4. (a) Explain ORDBMS database implementation challenges in detail.   8
    (b) Discuss the architecture of distributed database system in detail.   7

5. (a) What is priori property? Describe an algorithm for finding frequent item   8
         sets.
    (b) Describe the steps of data warehouse implementation.   7

6. (a) What is Dimension modeling? Discuss different dimension modeling techniques   8
         in detail.
    (b) Define Classification. Explain K-nearest Neighbors algorithm in detail.   7

7. Write short notes on:—   15
         a.   RDBMS Vs ORDBMS
         b.   Multimedia databases
         c.   Web Content Mining

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