Q.P. Code : 515402

Duration : 3 hrs   Marks : 80

Note: Q.1 is compulsory

Attempt Any four question from Q. 2 to Q. 7

Figures to right indicates marks

Additional information can be considered but justify the same

Q 1. a) Explain architecture of Data warehouse with neat diagram   [10]

       b) Write difference between (Any Two)   [10]
           a. OLTAP Vs OLAP
           b. Operational system Vs Informational system
           c. OODBMS and ORDBMS
           d. DW and Data mart

Q 2. a) Compare various architecture available in parallel database with real time   [08]
           example based on it.
       b) Explain OLAP architecture with a neat diagram   **muadda.com**   [07]

Q 3. a) Explain recovery process in distributed DBMS. Prove statement "recovery in   [08]
           DDBMS is more complicated than in centralized system".
       b) Compare different data storing techniques available in DDBMS   [07]

Q 4. a) Compare different types of web mining with appropriate example   [08]

       b) List characteristics of XML. Explain XML documents and databases.   [07]

Q 5. a) Explain Fact Constellation Schema for Inventory management system assuming   [08]
           appropriate information.
       b) Explain K-nearest Neighbors algorithm in detail with an example   [07]

Q 6. a) Explain bitmap index. When does it make sense to use a bitmap index? Explain with   [08]
           an example.
       b) Explain KDD in detail. Write down the importance of Data mining in KDD Process   [07]

Q 7.   Write Short Notes on **ANY THREE**   [15]
           a) New Challenges in implementing ORDBMS
           b) Spatial DB
           c) MOLAP
           d) Distributed Catalog Management
           e) Persistent programming languages