

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. OLTP 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 example based on it. [08]
b) Explain OLAP architecture with a neat diagram [07]
- Q 3. a) Explain recovery process in distributed DBMS. Prove statement "recovery in DDBMS is more complicated than in centralized system". [08]
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 appropriate information. [08]
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 an example. [08]
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