MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
Paper Code : MIS 401/MIS401 DATA WAREHOUSING
UPID : 004700

Time Allotted : 3 Hours   *Full Marks :70*

The Figures in the margin indicate full marks.
Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :   [1 x 10 = 10]
   (I) OLAP stands for _____.
   (II) Mention one benefit of using a Data Warehouse.
   (III) ROLAP stands for _____.
   (IV) Does data change frequently in Operational Database?
   (V) Mention any two categories of Meta Data.
   (VI) What does a dimension table contain?
   (VII) Mention one characteristic of OLAP systems.
   (VIII) What is Star schema?
   (IX) Does OLTP systems use historical data ?
   (X) What is a Web-enabled data warehouse?
   (XI) What is DOLAP?
   (XII) What does Technical Metadata include?

Group-B (Short Answer Type Question)
Answer any three of the following :   [5 x 3 = 15]

2. How is entity-relationship modeling technique different from dimensional modeling ?   [5]
3. What is Business Metadata?   [5]
4. Differentiate between DOLAP and HOLAP.   [5]
5. Discuss the Bottom-up approach to data warehouse development.   [5]
6. Discuss the advantages and disadvantages of snow flake schema.   [5]

Group-C (Long Answer Type Question)
Answer any three of the following :   [15 x 3 = 45]

7. (a) What are the factors to be considered for ETL tools?   [6]
   (b) Describe the ETL Process.   [9]
8. What are multicubes? Explain with examples.   [15]
9. Explain the three-Tier architecture of Data Warehouse.   [15]
10. (a) What is Operational data store?   [5]
    (b) Differentiate between database and data warehouse.   [10]
11. (a) Examine the factors to be considered while selecting the right Data Warehouse Tool.   [8]
    (b) Mention two Tools for managing and maintaining the Data Warehouse. Explain any one of them. [7]

*** END OF PAPER ***