[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2063)

864

M.Tech 2nd Semester Examination

Data Warehousing and Data Mining

MT-204

Time : 3 Hours **Max. Marks : 100**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary continuation sheet will be issued.

Note : Attempt five questions taking one questions each from each unit. Question No. 9 is compulsory.

UNIT - I

1. (a) Differentiate between operational data bases and data warehouse. **(5)**

   (b) What are OLAP classifications? List the OLAP tools available for commercial applications. **(10)**

   (c) What are data marts? What are its advantages and Limitations? **(5)**

2. (a) What is glossary based requirement analysis? Explain. **(10)**

   (b) Discuss the XML schema based design of a data warehouse with example. **(10)**

UNIT - II

3. (a) Present a diagrammatic representation of the typical architecture and main components of a data warehouse. **(15)**

   (b) Explain the terms-view materialization and view fragmentation. **(5)**

4. What are the various considerations for building a data warehouse? Explain with a suitable example. **(20)**

UNIT - III

5. (a) Discuss the mapping of a data warehouse to a multiprocessor architecture. **(12)**

   (b) Explain the reporting and query tools. **(8)**

6. (a) What do your mean by multi dimensional data models? Explain. **(12)**

   (b) Discuss the features and Limitations of a parallel RDBMS. **(8)**

UNIT - IV

7. What is data mining? Categorize the data mining tools? Explain them with their objectives. **(20)**

8. (a) Explain the role of Neutral Networks in data mining. **(10)**

   (b) What are decision tress? Explain their working. **(10)**

Compulsory Question

9. (a) What are the goals of a data warehouse? **(3)**

   (b) Discuss cleansing data. **(3)**

   (c) What are dimension tables? **(3)**

   (d) Explain testing data marts. **(5)**

   (e) Briefly explain the concept of generic algorithm. **(3)**

   (f) What do you mean by access to legacy data? **(3)**