



Printed Pages : 2

CS – 031

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1042

Roll No.

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B. Tech.

(SEM. VIII) EXAMINATION, 2006-07

DATA MINING & WAREHOUSING*Time : 3 Hours]**[Total Marks : 100**Note : Attempt all the questions.*

- 1 Attempt any **four** parts of the questions :
 - (a) What is data warehouse? What are the goals of a data warehouse?
 - (b) What do you mean by Granularity?
What is partitioning?
 - (c) Compare and contrast OLTP and data warehouse.
 - (d) How are data marts different from data warehouse?
What are the different types of data marts?
 - (e) Data consolidation is data modelling activity. This statement is true or not. Justify.
 - (f) Explain cluster systems with suitable example.
- 2 Attempt any **two** of the following :
 - (a) What are the different components of a data warehouse? Explain with the help of a diagram.
 - (b) What is metadata and why is it important? Discuss the multidimensional data.

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- (c) How mapping the data warehouse to a multiprocessor architecture is done?

3 Attempt any **two** of the following :

- (a) What is on-line transaction processing (OLTP)? Describe the evolution of OLTP. What are the critical features of OLTP systems?
- (b) Describe different Reporting and Query Tools and Applications.
- (c) How Artificial Intelligence is used in Data warehousing. Explain with suitable examples.

4 Attempt any **four** of the following :

- (a) What is data mining? Describe the evolution of data mining.
- (b) What is difference between verification and discovery?
- (c) What are advantages of data mining? Explain.
- (d) What are non linear regression method? Give two examples.
- (e) What are technologies used in data mining?
- (f) What do you mean by decision trees? Explain.

5 Attempt any **two** of the following :

- (a) Give E.F. Codd's 12 Guidelines for OLAP.
- (b) What are genetic algorithms? Explain taking one algorithm.
- (c) Discuss Data visualization with reference to Data Mining.