B.E. (Computer Science and Engineering)

Sixth Semester Elective - I

CS-605C: Data Mining and Analysis

me allowed: 3 Hours

Attempt five questions in all, including Question No. I which is compulsory

x-x-x

## Attempt the following:-

- a) How is a data warehouse different from a database?
- b) What do you understand by noisy data? Give examples.
- c) What is OLAP cube used for? Discuss in brief.
- d) Differentiate between classification and clustering.
- e) What is spatial data mining?

(5x2)

Exam.Code:0918 Sub. Code: 6798

## UNIT - I

- a) What kinds of patterns can be mined using Data Mining concepts? Discuss in brief.
  - b) Differentiate between ROLAP, MOLAP and HOLAP servers. (2x5)
- III. a) Explain multi-tier data warehouse architecture with the help of a diagram.
  - b) Briefly discuss any two major tasks involved in Data Preprocessing. (2x5)
- a) What are the major issues and challenges in Data Mining? Discuss in brief.
  - b) Write a note on Data Generalization by Attribute-Oriented Induction. (2x5)

## UNIT - II

- What do you understand by Association Rule Mining? Explain the algorithm for discovering frequent item sets for mining association rules with the help of an example.
- a) Explain k-nearest neighbour classification approach with the help of an example. VI.
  - b) What are decision trees? What are their advantage and disadvantages for classification? Discuss in brief.
- a) What is Cluster Analysis? Give the overview of any two basis clustering methods. VII.
  - b) Write a note on sequence data mining and its applications.