

Master of Science (M.Sc.) Fourth Semester (CBCS) (Computer Science) Examination

DATA MINING

Compulsory Paper—1

Paper—I

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) **ALL** questions are compulsory and carry equal marks

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) What is Data Mining ? Explain concept of Commercial viewpoint and Scientific viewpoint. 8

(b) Write notes on :

(i) Data Quality

(ii) Aggregation. 8

OR

(c) What is clustering ? Explain in detail. 8

(d) Explain the term Attribute Transformation and Density. 8

EITHER

2. (a) Explain Data Exploration Techniques. 8

(b) Write notes on :

(i) Box Plots

(ii) Scatter Plots. 8

OR

(c) Explain the term ROC curve and discuss interval for accuracy. 8

(d) Write notes on :

(i) Tree Induction

(ii) Measures of Node Impurity. 8

EITHER

3. (a) Explain Rule-Based classifier. 8

(b) Explain the concept of Association analysis. 8

OR

(c) Write notes on :

(i) Rule Generation

(ii) Tree Projection.

8

(d) Explain the properties of a good measure.

8

EITHER

4. (a) Explain the application of Cluster Analysis.

8

(b) Discuss the Graph-Based Clustering with example.

8

OR

(c) Write notes on :

(i) ROCK

(ii) Jarvis Patrik Clustering.

8

(d) What are Detection Schemes ? Explain.

8

5. (a) Explain Regression in detail.

4

(b) Explain Matrix Plot.

4

(c) Explain the concept of Hash Tree.

4

(d) Explain Hierarchical clustering.

4