

Bachelor of Science (Information Technology) (I.T.) Semester—VI Examination

DATA MINING

Paper—4

Time : Three Hours]

[Maximum Marks : 50

Note :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) What is Data Mining ? How is data mining different from KDD ? 5
- (b) Explain priori algorithm with example. 5

OR

- (c) Discuss the issues, challenges and applications in data mining. 5
- (d) Compare FIM and Incremental mining algorithm. 5

EITHER

2. (a) What is classification ? Explain the various classification techniques. 5
- (b) What is splitting criteria ? Explain. 5

OR

- (c) Describe the essential features in decision tree. Explain how it is useful to classify data. 5
- (d) Explain the decision tree construction algorithm. 5

EITHER

3. (a) What is clustering ? Explain different clustering techniques. 5
- (b) Describe the working of density base method. 5

OR

- (c) Explain outlier detection in detail. 5
- (d) Explain classification of clustering algorithm. 5

EITHER

4. (a) What are the different basic of time-series data ? Explain. 5
- (b) How do you distinguish spatial data and transactional data ? Explain. 5

OR

- (c) How is text data related to web data ? Explain. 5
- (d) What are the differences between relational data and distributed data ? Explain. 5

5. (a) Discuss the importance of discovering association rules. 2½
- (b) What are the disadvantages of the decision tree over the classification techniques ? 2½
- (c) Discuss the importance of cluster feature. 2½
- (d) What is the concept of partition discovery ? Explain. 2½