Roll No. ....

DD–793

M. Sc. (Fourth Semester) EXAMINATION, 2020

COMPUTER SCIENCE

(Elective—I)

Paper Third

(Data Mining and Data Warehousing)

Time : Three Hours

Maximum Marks : 100

Note : Attempt any *two* parts from each question. All questions carry equal marks.

1. (a) What is a data warehouse ? Explain the architecture of data warehouse.

   (b) What is data mining ? Explain the classification of data mining system.

   (c) Write short notes on the following :

   (i) Transactional database

   (ii) Distributed database

2. (a) Explain data preprocessing techniques in detail.

   (b) Explain the architecture of data mining system.

   (c) Discuss the concept of transformation.

3. (a) Write short notes on the following :

   (i) Multidimensional association rule

   (ii) Constraint-based association mining

   (b) Explain Boolean association rule.

   (c) Explain phases from association mining to correlation analysis.

4. (a) What is classification ? Explain the process of classification.

   (b) Give similarity and difference between classification and prediction.

   (c) What is cluster analysis ? Explain the different types of cluster analysis.

5. (a) Discuss social impact of data mining.

   (b) Explain different types of Web Mining. Also explain, how we can do data mining on data using web.

   (c) Write short notes on the following :

   (i) Trends in data mining

   (ii) Spatial mining

DD–793