Bachelor of Science (Information Technology) (I.T.) Semester–VI (CBS) Examination
DATA MINING
Paper—4

Time : Three Hours]   [Maximum Marks : 50

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 ? Give its features.   5
   (B) Write notes on the following :
       (i)   Knowledge Data Discovery in databases
       (ii) Online Analytical Processing (OLAP).   5

   OR

   (C) Explain Association rule.   5
   (D) What is incremental mining.   5

   EITHER

2. (A) What is optimal classification ? Give its advantages.   5
   (B) Write notes on the following :
       (i)   Regression
       (ii) Classification.   5

   OR

   (C) Write tree construction principles.   5
   (D) Explain decision tree construction algorithm.   5

   EITHER

3. (A) What is clustering ?   5
   (B) Explain classification of clustering algorithm.   5

   OR

   (C) Explain Hierarchical method in detail.   5
   (D) Discuss Grid Base method.   5

   EITHER

4. (A) What is Relational data ? Give its features.   5
   (B) Define the following terms :
       (i)   Spatial Data
       (ii) Data stream.   5

   OR

   (C) Explain Time series data with an example.   5
   (D) What is multidimensional data ?   5

5. Attempt **All** :
   (A) Explain data mining challenges.   2½
   (B) What is decision tree ?   2½
   (C) Define measurement of simplicity.   2½
   (D) Give the advantages and disadvantages of web data.   2½