M.Sc. (Part–II) Semester–III (CBCS) Examination
COMPUTER SOFTWARE (NEW)
(Data Warehouse and Data Mining)
Paper–3S1

Time : Three Hours] [Maximum Marks : 80

N.B. :— (1) All questions are compulsory.
(2) Assume suitable data wherever necessary.
(3) Illustrate your answer with the help of neat sketches.

1. (A) Explain the architecture of typical Data Mining System. 8
(B) Explain the concept of Hierarchy generation with example. 6

OR

2. (A) Explain Data Mining functionalities in detail. 8
(B) Explain Data transformation methods in detail. 6

3. (A) Explain :
(i) Data Discretization.
(ii) Data Generalization. 8
(B) Explain general procedure for class comparison. 6

OR

4. (A) Write DMQL syntax for :
(i) Task relevant Data specification.
(ii) Characterization.
(iii) Classification.
(iv) Association. 8
(B) Explain :
(i) Discrimination.
(ii) Clustering. 6

5. (A) Describe the main theoretical foundations that have been proposed for Data Mining. 7
(B) Explain the following trends in Data Mining :
(i) Application Exploration.
(ii) Scalable and Interactive Data Mining method. 6

OR

6. (A) State and describe the various features for selecting a Data Mining product. 7

(B) Explain Data Mining application in financial data analysis. 6

7. (A) Explain three tier Data Warehouse Architecture. 7

(B) Explain the different views regarding the design of Data Warehouse. 6

OR

8. (A) Explain the difference between OLTP and OLAP. 7

(B) Explain the metadata repository in Data Warehouse. 6

9. (A) Explain miscellaneous issues in Data staging. 7

(B) Explain various characteristics of Data quality. 6

OR

10. (A) Describe Dimension table staging. 7

(B) State and explain fact table. 6

11. (A) State and explain the process for evaluation of Data Warehouse. 6

(B) How warehouse environment manages the existing data ? Explain. 7

OR

12. (A) State and explain the steps to maintain and grow Data Warehouse. 7

(B) Explain overall business dimensional Life Cycle diagram. 6