

322832(22)**B. E. (Eighth Semester) Examination,
Nov.-Dec. 2019****(New Scheme)****(CSE Branch)****DATA MINING & WAREHOUSING****Time Allowed : Three hours****Maximum Marks : 80****Minimum Pass Marks : 28**

Note : Attempt all the questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d) in each question.

III-Third**Unit-I**

1. (a) Define Meta data. 2

(b) Explain the three-tier data warehouse architecture with diagram. 7

[2]

(c) What are the basic elements in data warehousing?
Explain with proper illustrations. 7

(d) How is data warehouse different from a database?
How are they similar. 7

Unit-II

2. (a) List any four data transformation tasks. 2

(b) Write short note on : (any one)

- (i) Data Extraction
- (ii) Data Transformation 7

(c) Explain the important characteristics of TYPE1, TYPE2 and TYPE3 change. Also explain important conditions for applying these changes. 7

(d) Explain star and snowflake schema for representing multidimensional databases along with advantages and disadvantages. 7

Unit-III

3. (a) Define OLAP. 2

(b) What are the important guidelines that has been given by Dr. E. F. Codd for OLAP system? 7

[3]

(c) Draw and explain the architecture of ROLAP and MOLAP models. 7

(d) How many classes of users are involved in datawarehouse? Explain. 7

Unit-IV

4. (a) What are the various steps involved in KDD? 2

(b) Explain decision tree construction with the help of algorithm and example. 7

(c) Discuss various data mining techniques. 7

(d) What is clustering? Explain with the help of an algorithm and an example. 7

Unit-V

5. (a) Define web mining. 2

(b) Discuss various approaches used in web structure mining. 7

(c) What are Data Mining Primitives? Describe various primitives for specifying a data mining task. 7

(d) How are graphical user interfaces designed using DMQL? 7