# 322832(22)

## B. E. (Eighth Semester) Examination, Nov.-Dec. 2021

### (New Scheme)

### (CSE Branch)

## DATA MINING & WAREHOUSING

*Time Allowed : Three hours*

*Maximum Marks : 80*

*Minimum Pass Marks : 28*

*Note : Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d). The figures in right hand side indicate marks*

### Unit-1

1.  (a)  What is data warehousing?                                      2

(b) Give a brief description about data warehouse architecture. 7

(c) What do you mean by metadata? Explain the role of metadata in data warehouse. 7

(d) Explain the skills and responsibilities held by data warehouse administrater and business analyst as warehouse expert professional. 7

## Unit-II

2. (a) Define Meta Data. 2

(b) Explain various OLAP operations. 7

(c) Compare different characteristics of fact table and dimension table. 7

(d) What are type of repositories in the data staging component of data warehouse architecture? Explain in detail. 7

## Unit-III

3. (a) Justify how data warehouse and webs are related to each other. 2

(b) Compare OLTP and Data warehouse. 7

(c) Briefly explain different implementation and maintenance steps in data ware house. 7

(d) How data partitioning is helpful in data warehouse to reduce query accessing time? 7

## Unit-IV

4. (a) Define the steps of preprocessing raw data sets. List methods in each step. 2

(b) What do you mean by knowledge discovery? Describe KDD Process. 7

(c) Write technical note on various classification techniques used in data mining. 7

(d) What do you mean by clustering? Explain it with suitable example. 7

## Unit-V

5. (a) Define web mining. 2

(b) Write short technical note on the following : 7

    (i)  Web content mining ;

    (ii)  Web structure mining

(c)  Discuss application of data mining in various areas.  7

(d)  Explain data generalization and summerization on basis of characteristics. Compare it with analytical characterization.  7