

Printed Pages – 3

Roll No. : .....

**322832(22)**

APR-MAY

**B. E. (Eighth Semester) Examination, 2020 2022**

(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. Solve any two of parts (b), (c) and (d). Draw neat and clean diagrams wherever necessary. Assume suitable example wherever necessary.*

**Unit-I**

1. (a) What are the basic elements of data warehousing? 2
- (b) Write down the difference between data warehouse (OLAP) and operational database (OLTP). 7

[ 2 ]

- (c) Explain different types of activities encompassed in an ETL process. 7
- (d) Explain in detail data warehouse architecture. 7

**Unit-II**

- 2. (a) What is Metadata? 2
- (b) What do you mean by dimensional modelling? Explain any one schema with suitable example. 7
- (c) Explain the different OLAP operations. 7
- (d) What are the types of storage repositories in the data staging component of data warehousing architecture? 7

**Unit-III**

- 3. (a) How are the data warehouse and web related? 2
- (b) List four main activities during data warehouse deployment. 7
- (c) Explain web enabled data warehouse with complete architecture. 7
- (d) How is data partitioning helpful in reducing the query access time from data warehouse? 7

[ 3 ]

**Unit-IV**

- 4. (a) Write down the applications of data mining. 2
- (b) Explain the steps of KDD processes. 7
- (c) Define the term data mining. Briefly explain different data mining techniques. 7
- (d) What do you mean by clustering? Briefly explain the association rules. 7

**Unit-V**

- 5. (a) Define web mining. 2
- (b) Describe the architecture of data mining. 7
- (c) Discuss about data generalization and summarization based characteristics. How does it differ from analytical characterization? 7
- (d) How graphical user interface are designed using DMQL? 7