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**B. E. (Seventh Semester) Examination,
April-May 2020**

(New Scheme)

(IT Branch)

DATA MINING & WAREHOUSING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) of each question is compulsory.
Attempt any two part from (b), (c) and (d) of
each question.

Unit-I

1. (a) What is the need of data warehousing? 2
- (b) What is data warehouse? Explain the basic elements
of data warehousing. 7

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(c) Explain project planning and management with a example. 7

(d) What are the different trends in data warehousing? 7

Unit-II

2. (a) Define data staging. 2

(b) Explain data extraction, transformation and loading. 7

(c) What is dimensional modeling? Explain along with its principles. 7

(d) Explain data quality with suitable example. 7

Unit-III

3. (a) What is data mart? 2

(b) What is OLAP? Explain along with its advantages. 7

(c) What is the relation between data warehouse and web? 7

(d) Explain how to implement and maintain the data warehouse. 7

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Unit-IV

4. (a) Define data mining. 2

(b) What are the different techniques of data mining? Explain any one of them. 7

(c) Explain KDD process. 7

(d) What is clustering? Explain K-medoid algorithm. 7

Unit-V

5. (a) What is web mining? 2

(b) Discuss usability of data mining techniques in e-commerce. 7

(c) What is concept of hierarchy? How it is related to web mining. 7

(d) What is data visualization? How can this tool help in decision making process? 7