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Roll No. : .....

**322832(22)**

**B. E. (Eighth Semester) Examination, April-May 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. Solve any two of parts (b); (c) and (d).

**Unit-I**

1. (a) What are the key characteristics of a data-warehouse? 2

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- (b) Explain three tier architecture of Datawarehouse with suitable example. 7
- (c) Discuss various usage and trends in data warehousing. 7
- (d) Write short notes on : 7
  - (i) Mata data
  - (ii) Project planning and management

**Unit-II**

- 2. (a) What is Fact Table? 2
- (b) What do you understand by data quality? Why it is important? Explain with respect to data warehousing. 7
- (c) Explain data extraction, transformation and loading. 7
- (d) What is Dimensional Model? Explain various schemes for representing multidimensional models. 7

**Unit-III**

- 3. (a) What are the OLAP hypercubes? 2
- (b) Explain various classes of users with their responsibilities in data warehousing. 7

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- (c) Explain physical design process of data warehouse. 7
- (d) What is the relation between datawarehouse and web? Explain information delivery components. 7

**Unit-IV**

- 4. (a) What is Data Mining? 2
- (b) What is KDD? What are the various steps involved in KDD? Explain in brief. 7
- (c) What are the different techniques of data-mining? Explain any one of them. 7
- (d) Explain Clustering and Association Rules. 7

**Unit-V**

- 5. (a) What is Web Mining? 2
- (b) Define the term temporal and spatial mining with example. 7
- (c) What is Web Content Mining? What are the various outcomes which are expected after web mining? 7
- (d) Describe datamining task primitives. 7