

**322832(22)**

**B. E. (Eighth Semester) Examination,  
April-May 2019**

**(New Scheme)**

**(CSE Branch)**

**DATA MINING & WAREHOUSING**

**Time Allowed : Three hours**

**Maximum Marks : 80**

**Minimum Pass Marks : 28**

**Note : Attempt all questions. Part (a) is compulsory.**

**Attempt any two from (b), (c) and (d).**

1. (a) Define Data Warehouse. 2  
(b) Describe basic elements of datawarehouse. 7

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- (c) Explain project planning and management in datawarehouse. 7  
(d) Draw and explain 3-tier architecture of data warehouse. 7
2. (a) What is metadata? 2  
(b) What is dimensional modeling? Describe principles of dimensional modeling. 7  
(c) What is data extraction? Describe techniques of data extraction in detail. 7  
(d) Explain transformation tyres in data warehouse in detail. 7
3. (a) What is OLAP? 2  
(b) Explain matching information to classes of users in detail. http://www.csvtuonline.com 7  
(c) Describe physical design process in data warehouse in detail. 7  
(d) Explain process of data warehouse deployment in detail. 7
4. (a) Define data mining. 2  
(b) What is knowledge discovery? Describe KDD process in detail. 7

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- (c) Describe classification in data mining with example. 7
- (d) Explain clustering in data mining in detail. 7
5. (a) What is web mining? 2
- (b) Describe web content mining and web structure mining in detail. 7
- (c) Explain spatial mining in detail. 7
- (d) Write short notes on : 7
- (i) Data mining primitives
  - (ii) Trends in data mining

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