Roll No .....

CS-8003 (2) (CBGS)

B.E. VIII Semester

Examination, May 2019

Choice Based Grading System (CBGS)

Data Mining

Time : Three Hours *Maximum Marks : 70*

Note: i) Attempt any five questions.
ii) All question carry equal marks.

1. a) With a neat sketch explain the architecture of a data warehouse. 7
   b) Explain the design and construction of a data warehouse. 7

2. a) List out the differences between OLTP and OLAP. 7
   b) Discuss the various schematic representations in multidimensional model. 7

3. a) Explain mining Multi-dimensional Boolean association rules from transaction. 7
   b) Is the data warehouse a prerequisite for data mining? Does the Data warehouse helps data mining. If so in what ways? 7

4. a) Explain whether association rule mining is supervised or unsupervised type of learning. 7
   b) The heights of players of a school's basket ball team are 72", 74", 70", 78", 75", and 70". Find the mean height. 7

5. a) Explain the algorithm for constructing a decision tree from training samples. 7
   b) Explain the methods for computing best split. 7

6. a) Explain different data types used in clustering. 7
   b) Explain briefly the differences between "Classification" and "clustering" and give an informal example of an application that would benefit from each techniques. 7

7. a) Describe example of data set for which apriori check would actually increase the cost? 7
   b) Discuss the typical OLAP operations with an example. 7

8. a) Describe different data cleaning approaches. 7
   b) Can you briefly describe the four stages of Knowledge Discovery (KDD)? Can you describe the multi-tiered data warehouse architecture? 7

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