Roll No ....

CS-8003 (2) (CBGS)

B.E. VIII Semester Examination, June 2020

Choice Based Grading System (CBGS)

Data Mining

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is Data Warehousing? What is the need for developing data warehouse.
   b) Explain the different components of a data warehouse.

2. a) Give reason why it is necessary to separate data warehouse from operational database.
   b) Discuss the methods for efficient computation of data cubes.

3. a) Write short notes:
      i) Star schema
      ii) Snowflake schema
   b) What is OLAP? Write down the characteristics of OLAP system.

4. a) Differentiate between:
      i) OLAP and OLTP
      ii) ROLAP and MOLAP
   b) Discuss the activities of data cleaning with the process associated with it?

5. a) Examine the steps involved in the design and construction of data warehouse?
   b) What is Cluster Analysis? Explain different types of clusters.

6. a) Explain various alternative methods for generating frequent item sets.
   b) Describe algorithm for time series mining association rules.

7. a) Discuss in detail about the Bayesian and decision tree classifier.
   b) Explain FP-Growth algorithm.

8. Write short notes:
   i) Direct Hashing and Pruning
   ii) Naive Bayes Method
   iii) Spilt Algorithm based on Gini Index.
   iv) Data reduction

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