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Roll No

IT-8004(1)-CBGS

B.E. VIII Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Data Mining and Warehousing

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is data cleaning? Describe the approaches to fill missing value.
b) With an example describe any two scheme (star/snowflake /fact constellation) definition using DMQL statement.
2. Write detailed note on how OLAP technology helps in discovery driven exploration of data cubes.
3. a) What is data mining functionality? Explain different types of data mining functionality with example.
b) Explain how data mining system can be integrated with database/ data warehouse system.
4. Write an algorithm for FP-Tree construction and explain how frequent item sets are generated from FP-Tree?

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5. Write Apriori algorithm and using the algorithm find all frequent itemsets for the following databases. (Min_sup = 20%)

TID	List of item_IPs
1	a, b, e
2	b, d
3	b, c
4	a, b, d
5	a, c
6	b, c
7	a, c
8	a, b, c, e
9	a, b, c

6. Write a short note on following:
- Unsupervised Learning
 - Web mining
 - Multilevel Association Rules
7. a) Discuss K-means clustering algorithm using examples.
b) Describe outlier analysis.
8. Write short notes on.
- Spatial mining
 - Latest trend in association rules mining
