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Roll No ....

MCTA-301(A)/MCIT-301(B)

M.E./M.Tech. III Semester

Examination, November, 2018

Data Mining and Ware Housing

(Elective-I)

Time : Three Hours

Maximum Marks: 70

Note: i)   Attempt any five questions.

ii)   All questions carry equal marks.

1. a)   Discuss in detail about the steps in knowledge discovery in database.

b)   What factors lead to mining of data.

2. a)   Explain the algorithm for constructing a decision tree from training samples.

b)   Discuss K- means clustering algorithm.

3. a)   Discuss the algorithm and example of Pincer search.

b)   Discuss categorical clustering algorithm.

4. a)   What is spatial database? Explain the methods of mining of Spatial database.

b)   Explain context based image and video retrieval method.

5.   Illustrate with an example each of the following data mining functionalities.

i)   Association and Correlation analysis

ii)   Classification

iii)   Prediction

iv)   Clustering and Evolution analysis.

6. a)   List the differences and similarity between web context mining web structure mining and web usage mining.

b)   Discuss application of fuzzy and genetic algorithm in data mining.

7. a)   How is data warehouse differ from database? How are they similar.

b)   Draw the data warehouse architecture.

8.   Consider the market basket data represented in binary format in the following table.

Trans-ID	Bread	Milk	Butter
1	0	1	1
2	0	1	1
3	1	1	1
4	0	1	0
5	1	0	0

Generate association rule using apriori association rule generation algorithm.

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