Total No. of Questions : 8]　　　　[Total No. of Printed Pages : 2

Roll No ....

MCSE-301(A)

M.E./M.Tech., III Semester

Examination, November 2018

Data Warehousing and Mining

(Elective - I)

Time : Three Hours

Maximum Marks: 70

Note:　i)　Attempt any five questions.

　　　　ii)　All questions carry equal marks.

1. a) Differentiate between:　　　　　　　　　　7
   - i) KDD V/s Data mining
   - ii) DBMS V/s Data mining
   b) Discuss the various issues and challenges in Data Mining.　　　　7

2. a) What are Mining problems? Explain the application areas of data mining.　　　7
   b) Discuss various issues of Apriori Algorithm. Also list and discuss various alternatives to improve efficiency of Apriori Algorithm.　　　7

3. a) How multilevel association rules can be mined efficiently using concept hierarchy?　　　7
   b) Briefly discuss types of OLAP and also explain the processing of OLAP queries.　　　7

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4. a) What is decision tree? Explain how classification is done using decision tree induction.　　　7
   b) Write steps of k-mean clustering algorithm with in pros and cons.　　　7

5. a) Explain briefly:　　　　　　　　　　7
   - i) Web structure mining
   - ii) Web usage mining
   b) Explain DBSCAN algorithm.　　　7

6. a) What is the time series analysis? What are the various detected pattern in time series?　　　7
   b) Give a brief note on Episode discovery and Event prediction.　　　7

7. a) Discuss the important issues to be addressed by data clustering system.　　　7
   b) Write a note on fuzzy logic with its applications.　　　7

8. Write short notes:　　　　　　　　　　14
   a) Feature extraction
   b) Spatial mining
   c) SPADE
   d) K-mendioid

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