

Roll No .....

**MSE-302(A)****M.E./M.Tech., III Semester**

Examination, December 2014

**Data Warehousing and Mining (Elective-II)***Time : Three Hours**Maximum Marks : 70***RGPVONLINE.COM***Note : Attempt five questions out of eight.*

1. a) What is classification? How is datamining related to business intelligence? 7  
b) Discuss the issues to be considered during data integration. 7
2. a) What is partitioning of data? Illustrate with an example. Explain the ways to carry it out. Which one is better and why? 7  
b) Differentiate between Temporal and spatial Data Mining. 7
3. a) Explain the nearest neighbours classification technique with its characteristics. 7  
b) Discuss the different factors affecting computational complexity of the Apriori algorithm. 7
4. a) Explain how association patterns are evaluated? 7  
b) Define a frequent pattern tree. Discuss the method of computing a FP-tree with an algorithm. 7

5. A data base has five transactions. Let min-sup = 60% and min-conf = 80%.

TID	Items brought
T1	{ M, O, N, K, E, Y }
T2	{ D, O, N, K, E, Y }
T3	{ M, A, K, E }
T4	{ M, U, C, K, Y }
T5	{ C, O, O, K, I, E }

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Find all frequent item sets using Apriori and FP growth respectively. 14

6. a) How Neural Network, Fuzzy logic is used for data mining. 7  
b) Discuss the techniques of Event mapping. 7
7. a) What is clustering? What are the different types of clusters? Explain the basic K-means cluster algorithm. 7  
b) Explain the various operators of Genetic Algorithm? 7
8. Write short notes on the following: 14
  - a) SPIRIT
  - b) Feature extraction
  - c) Web Mining
  - d) DBSCAN.