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Roll No .....

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

**M.E./M.Tech. III Semester**

Examination, June 2016

**Data Mining and Ware Housing (Elective-I)**

*Time : Three Hours*

*Maximum Marks: 70*

**Note:** Attempt any five questions. All questions carry equal marks.

1. a) Before extracting knowledge from the data, we need to apply some important steps on it. Explain those steps.  
b) Explain all challenges that arise during data mining.
2. a) How to generate the rules from the frequent item set? Explain the importance of support and confidence in rule generation.  
b) Is there any method to generate association rules without candidate item sets.
3. a) Explain and write k-mean cluster algorithm with its advantages and disadvantages.  
b) Write and explain DBSCAN cluster approach.
4. a) What do you mean by web mining? Differentiate web structure, content and usage mining.  
b) Explain how soft computing play an important role to mine data?

5. a) What do you mean by frequent sub sequences? How to find frequent subsequences from the sequence data?  
b) Write note on the following:
  - i) Event prediction
  - ii) Time series analysis
6. a) What do you mean by content based image and video retrieval?  
b) Explain the following:
  - i) Spatial clustering
  - ii) Spatial trends
7. a) What do you mean by data warehouse? Explain different data warehouse schemas.  
b) Explain different techniques to measure the effectiveness of data mining algorithm.
8. Write short notes on the following:
  - a) OLA and OLT
  - b) Data mining applications
  - c) CLARA and CLARANS
  - d) Generic algorithms

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