JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, December - 2014
DATA WAREHOUSING AND DATA MINING
(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- - -

1.a)   What is data mining? Explain the architecture of a typical data mining system.
  b)   Is every pattern interesting? Can a mining system find only interesting patterns? Justify your answer.

2.a)   Explain in detail Online Analytical Processing operations with illustrations.
  b)   Describe star flake and fact constellation schema.

3.   What is the need for preprocessing? Briefly explain various forms of preprocessing.

4.   How to find frequent item sets without candidate generation? Explain with an example.

5.a)   How to handle tree overfitting in decision trees?
  b)   Why is information gain measure necessary for decision tree induction? Explain with illustrations.

6.a)   Discuss the categorization of major clustering methods.
  b)   Explain CHAMELEON algorithm.

7.   What is data stream? Explain the data mining functionalities applicable to data streams.

8.a)   Discuss data mining for intrusion detection.
  b)   Write about data mining for financial data analysis.

--ooOoo--