Roll No ....

MCA - 501

MCA V Semester

Examination, December 2013

Data Warehousing and Mining

Time : Three Hours

Maximum Marks : 70

Note: 1) Attempt any one question from each unit.

2) All questions carry equal marks.

Unit - I

1. a) Define file system, DBMS, DW systems.
   b) How can time series Data be analyzed to identify trends.

2. a) Discuss following function of DM
   i) Outlier Analysis
   ii) Prediction
   iii) Evolution Analysis
   b) Discuss major issues of Data Mining.

Unit - II

3. a) Give the differences between OLAP & OLTP Technology.
   b) What is Data warehouse. List the characteristics of Data warehouse.

4. a) Discuss various schema to implement Data warehouse.
   b) Explain HOLAP, MOLAP, ROLAP.

Unit - III

5. a) What is Noise. How it is removed from row data discuss.
   b) Discuss the following with their importance.
   i) Mean
   ii) Mode
   iii) S.D.

6. a) Why need of Data Integration. Discuss methods of Data Integration.
   b) What is concept Hierarchy. How it will be generated. Explain.

Unit - IV

7. a) What is pattern. Discuss various types of pattern.
   b) Discuss ARM process in detail.

8. a) Discuss pincer search Algorithm to final Maximal frequent pattern.
   b) Differentiate between Multilevel and multidimensional Association rules.

Unit - V

9. a) Describe how will identify attributes that contribute too little to classification in a Decision tree.
   b) Describe Density based clustering technique. How it differs from other clustering techniques.

10. Write a short notes on following:
    a) Spatial Data Mining
    b) Graph Mining
    c) Genetic Algorithm
    d) Decision tree

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