Total No. of Questions :5] [Total No. of Printed Pages :2

Roll No ....

MCA - 501

MCA. V Semester

Examination, December 2015

Data Warehousing and Mining

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
ii) All parts of each question are to be attempted at one place.
iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Mention some of the data mining techniques.
   b) Define cluster analysis.
   c) How is a data warehouse different from a database?
   d) What is data mining functionalities? Explain different types of data mining functionality with example.

   OR

   Discuss the issues in data mining in detail.

2. a) Write down the OLAP operations.
   b) Write the advantages of data warehouse.
   c) Write down the application of data warehousing.
   d) Distinguish the difference between OLAP and OLTP?

   OR

   Draw the diagram and explain the architecture of data mining system.

3. a) Define data mining primitives.
   b) Define data reduction.
   c) Write advantage of data preprocessing.
   d) Discuss issues to be considered during data integration.

   OR

   Explain in detail data preprocessing.

4. a) Define support and confidence.
   b) What are the various mining association rules?
   c) What is the purpose of Apriori Algorithm?
   d) Explain Apriori Algorithm in detail with suitable example.

   OR

   Explain constraint based association mining.

5. a) List any four data mining applications.
   b) Compare classification and prediction.
   c) What are the fields in which clustering techniques are used?
   d) Explain different classification methods.

   OR

   Write a short notes
   i) Issue regarding prediction
   ii) Clustering method

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