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Total No. of Questions :5]

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Roll No

MCA - 501

MCA. V Semester

Examination, December 2016

Data Warehousing and Mining

Time: Three Hours

Maximum Marks: 70

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- 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.

Unit - I

- What do you understand by KDD?
 - b) Write down the applications of data mining.
 - Describe the major challenges in data mining.
 - Discuss major issues in data mining regarding mining methodology and user interaction.

OR

What kinds of resources are typically required to undertake mining? Explain.

Unit - II

- What do you meant by data ware house backend tools and utilities.
 - Draw a snowflake schema diagram for the data ware house.
 - How is a data warehouse different from a database? How are they similar? Explain.
 - What do you understand by the term OLAP? List the various types of OLAP operations.

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OR

What do you understand by Data marts? Also explain dependent, independent and distributed data marts.

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Unit - III

- What is analytical characterization?
 - What is meant by dimensionality reduction?
 - What do you understand by discretization and concept hierarchy generation for numerical data?
 - List and describe the five primitives for specifying a data mining task.

OR

What do you understand by "data cleaning as a process"? Give the approaches for data cleaning.

Unit - IV

- What are multidimensional association rule?
 - What is frequent itemset? b)
 - What is constraints-Based association mining? Explain.
 - What is Apriori algorithm? Give few techniques to improve the efficiency of Apriori algorithm.

OR

Explain association rule in mathematical notation. Define support and confidence in association rule mining.

Unit - V

- What are major Clustering methods?
 - What do you meant by outlier?
 - Specify the five criteria for the evaluation of classification and prediction.
 - What are different classification methods? Explain.

OR

Write short notes on:

- Gini Index
- Support Vector Machine.
- iii) Tree Induction Algorithm.

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