[Total No. of Printed Pages :2

MCA-501

M.C.A. V Semester

Examination, November 2019

Data Warehousing and Mining

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Draw architecture of data mining system and describe its components.
 - Describe in brief about various types of data on which mining can be performed.
- List and describe five primitives for specifying a data mining task.
 - Differentiate the following:-
 - Discrimination and classification
 - Clustering and characterization
 - iii) Classification and prediction
- Compare OLAP and OLTP systems.

- Explain stars, show flakes and fact constellation schemas for multidimensional data model with examples.
- Describe three tier data warehousing architecture.
 - What are the advantages of a data cube? Discuss the materialization of different kinds of cubes.

MCA-501

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- Define association rule. Describe the concept of frequent item set, confidence and support.
 - b) Write A priori algorithm. Illustrate its working with suitable example.
- Define the FP-tree and write method of computation of FP-Tree.
 - Describe quantitative association rule mining with example.
- What is classification rule? Describe major steps of decision tree classification.
 - Write algorithm for K-nearest neighbour classification.

Briefly describe the following: -

- Prediction
- ii) Cluster analysis
- b) Write a detailed note on applications and trends in data mining.

7

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