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MCA DEGREE V SEMESTER EXAMINATION NOVEMBER 2015

CAS 2503/2504/2505 DATA MINING (Regular and Supplementary)

Time: 3 Hours

Maximum Marks: 50

PART A

(Answer *ALL* questions)

(15 × 2 = 30)

- I. (a) Mention the strategies of data mining.
(b) Reveal the theories that portray the basis of the data mining.
(c) Differentiate descriptive and predictive tasks.
- II. (a) Illustrate stem and leaf plots with an example.
(b) Explain the terms slicing and dicing.
(c) What do you understand by the term 'data cube'?
- III. (a) What is meant model over fitting?
(b) Define classification. Give an example of a classification problem.
(c) Illustrate the use of a decision tree with an example.
- IV. (a) Explain the Apriori principle.
(b) Give any one approach for evaluating association patterns.
(c) Distinguish between support and confidence.
- V. (a) Distinguish between complete and partial clustering.
(b) Give the basic k-means algorithm.
(c) What are the applications of anomaly detection?

PART B

(5 × 4 = 20)

- VI. Explain the architecture of data mining.
- OR**
- VII. Explain different types of data pre processing methods.
- VIII. What do you understand by the term 'data visualization'? Discuss methods to visualize higher dimensional data.
- OR**
- IX. Discuss different ways to analyze multi dimensional data.
- X. Write a note on decision tree induction.
- OR**
- XI. Give the k-nearest neighbor classification method. Outline the major characteristics of nearest neighbour classifiers.
- XII. Explain Apriori method for frequent item set generation.
- OR**
- XIII. Discuss different methods for evaluating association patterns.
- XIV. Explain different types of clusterings.
- OR**
- XV. Give a detailed description of the DBSCAN algorithm.