R13

Code No: 814BD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, December - 2019
DATA WAREHOUSING AND DATA MINING

Time: 3 Hours   **Max. Marks: 60**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

                                                                             5 × 4 Marks = 20

1.a) What is data preprocessing? What are the various forms of it.   [4]
  b) Explain the architecture of data warehouse.   [4]
  c) Distinguish between Apriori algorithm and Frequent pattern growth algorithm. [4]
  d) What are the steps involved in preparing the data for classification?   [4]
  e) What are the advantages and disadvantages of k-means algorithm.   [4]

PART - B

                                                                             5 × 8 Marks = 40

2.a) Explain about the Integration of a Data mining system with a Database or Data warehouse system.
  b) List the techniques for Data cleaning.   [4+4]

OR

3.a) What are the issues in Data mining?
  b) Explain about the classification of data mining systems.   [4+4]

4.   Explain in detail about the implementation of a data warehouse.   [8]

OR

5.   Illustrate OLAP operations in the Multidimensional Data Model.   [8]

6.   Discuss the FP-growth algorithm. Explain with an example.   [8]

OR

7.   Discuss about mining multilevel association rules from transaction databases in detail.
                                                                               [8]

8.   Explain in detail about classification of Back propagation algorithm.   [8]

OR

9.   Explain linear regression and non-linear regression with example.   [8]

10.   Write algorithms for k-medoid clustering and Explain with simple data.   [8]

OR

11.   Explain about the Statistical-based outlier detection.   [8]

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