END TERM EXAMINATION

SIXTH SEMESTER [BCA] SEPTEMBER- OCTOBER 2020

Paper Code: BCA-302	Subject: Data Warehouse and Data Mining
Time: 2 Hours	Maximum Marks: 75

Note: Attempt any three questions including Q.no1 which is compulsory.

Q1   Answer of the following questions briefly: (5x5=25)
   a) What is data preprocessing? Why it is important?
   b) Differentiate between predicitve model and descriptive model.
   c) Discuss online analytical processing (OLAP) along with its types.
   d) Is support and confidence for X→Y the same as that of Y→X? Why or why not?
   e) What is frequent pattern mining? What is it useful for?

UNIT-I

Q2 a)   Explain Knowledge Discovery in Databases (KDD) process in detail with the help of a diagram.   (12.5)
    b)   Explain Data Staging Process in brief. How attributes sub-set selection is performed during data staging process.   (12.5)

OR

Q3 a)   In real world data, tuples with missing values for some attributes are a common occurrence. Describe various methods for handling this problem.   (12,5)
    b)   Explain normalization, its need and various ways in which it can be performed.   (12.5)

UNIT-II

Q4 a)   What is a data warehouse? Explain the architecture of data warehouse with the help of a diagram.   (12.5)
    b)   What are the various input sources for data?   (12.5)

OR

Q5 a)   Apriori algorithm uses an iterative approach called level-wise search. Explain with the help of an example.   (12.5)
    b)   Explain, how Apriori algorithm helps in identifying association? Use example.   (12.5)

UNIT-III

Q6 a)   Explain classification along with the decision tree induction algorithm.   (12.5)
    b)   Explain info-gain and split criteria.   (12.5)

OR

Q7 a)   Discuss K-means Clustering algorithm in detail.   (12.5)
    b)   Explain various types of data in cluster analysis.   (12.5)

UNIT-IV

Q8 a) Suppose that you are employed as a data mining analyst for a retail company. Describe how data mining can help the company by giving specific examples of how techniques, such as association and clustering can be applied and can be used in decision making.   (12.5)

    b) Explain Roll-up, drill-down, slicing, dicing and pivot using suitable example.   (12.5)

OR

Q9 a) Write short note on mining spatial and multimedia databases.   (12.5)

    b) How the mining of world wide web is performed? Discuss its various applications.   (12.5)

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