

END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY 2018

Paper Code: BCA-302

Subject: Data Warehouse and Data Mining

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.no.1 which is compulsory.
Select one question from each unit.

- Q1 Answer the following questions in brief: (2.5x10=25)
- (a) What do you mean by Frequent Pattern mining in databases?
 - (b) Define Quantile plot and scatter plot.
 - (c) What do you mean by data transformation? Explain.
 - (d) Define Regression technique for predictive analysis of data.
 - (e) Explain support and confidence in relation to association rule mining.
 - (f) What is a data warehouse?
 - (g) What is Starnet Query Model for querying multidimensional databases?
 - (h) What are the applications of data mining?
 - (i) What is accuracy and error measure in relation to classification?
 - (j) What are data mining task primitives?

Unit-I

- Q2 (a) Discuss the benefits of data mining. (6.5)
(b) How can you measure dispersion of data? Explain the concept of Range, Quartiles, Outliers, and Boxplots. (6)
- Q3 (a) How are missing values and noisy data handled in data cleaning step of data mining? (6.5)
(b) Define Knowledge Discovery in Databases with suitable diagram. (6)

Unit-II

- Q4 (a) Explain star, snowflake schema for multidimensional data models. (6.5)
(b) Compare OLAP and OLTP systems. (6)
- Q5 (a) What are typical OLAP operations? Explain in brief. (6.5)
(b) Explain Apriori Algorithm of association rule mining. (6)

Unit-III

- Q6 (a) Explain decision tree in classification. (6.5)
(b) Explain k-means algorithm in detail with suitable diagram. (6)
- Q7 (a) Differentiate between eager and lazy learners? Explain their different types. (6.5)
(b) Explain k-medoid algorithm in detail with suitable diagram. (6)

Unit-IV

- Q8 (a) What are the major issues in data mining? Explain. (6.5)
(b) What are data mining applications in Telecom industry? (6)
- Q9 (a) Discuss social impacts of data mining in detail. (6.5)
(b) Write short notes on: (6)
(i) Mining the World Wide Web
(ii) Mining spatial databases.

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