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Total No. of Pages : 2

Total No. of Questions : 07

B.Sc.(IT) (2015 & Onward) (Sem.-5)
DATA WAREHOUSING AND MINING
Subject Code : BSIT-504
Paper ID : [74378]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A**1. Answer briefly :**

- a) Write any two characteristics of a data warehouse.
- b) Write any two applications of market basket analysis.
- c) Define support and confidence in the context of association rule mining.
- d) Mention the constraints that are applicable in constraint based association mining.
- e) Define OLTP.
- f) What is the purpose of classification?
- g) Write names of any four clustering algorithms.
- h) Give four examples where prediction technique is useful.
- i) What is cross validation?
- j) Why is data transformation required?

SECTION-B

- Q2. Why do we need data warehousing? Discuss the characteristics of a data warehouse. (4,6)
- Q3. Explain the working of the Apriori algorithm with the help of an example. (10)
- Q4. Write down the steps for building a data warehouse. (10)
- Q5. Give example of multidimensional data. Discuss the schemas for representing multidimensional data. (1,9)
- Q6. Explain the different data mining techniques. How to choose the best technique for a task? (8,2)
- Q7. Differentiate between classification and clustering. Explain any one clustering algorithm. (4,6)

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