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Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE
[2014 SCHEME] EXAMINATION, APRIL 2018**

Computer Science Engineering

CS 14 803—DATA MINING AND WAREHOUSING

Time : Three Hours

Maximum : 100 Marks

Part A

Answer any eight questions.

Each question carries 5 marks.

1. List the steps involved in KDD process.
2. Mention any five data mining techniques.
3. Mention the need for OLAP.
4. State the purpose of using a classification model.
5. List the advantages of a decision tree.
6. Discuss about the issues regarding classification and prediction.
7. Define support and confidence in association rule mining.
8. Give the difference between Boolean association rule and quantitative association rule.
9. State the requirements of cluster analysis.
10. Write the objective function of the *k*-means algorithm.

(8 × 5 = 40 marks)

Part B

Answer all questions.

Each question carries 15 marks.

1. (a) What types of processing take place in a data warehouse ? Explain.

Or

- (b) Draw the architecture of a data mining system and explain.

2. (a) Explain the working of data classification using examples.

Or

- (b) Describe rule-based classifiers using IF-THEN rules.

Turn over

3. (a) Explain mining Multi-dimensional Boolean association rules from transaction databases.

Or

- (b) Explain constraint based association mining.

4. (a) Illustrate how data mining is applied to retail industry.

Or

- (b) Explain data mining applications for Biomedical and DNA data analysis.

(4 × 15 = 60 marks)