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TCS-812

B. Tech. (CSE) (Eighth Semester)
Mid Semester EXAMINATION, June, 2017
DATA WAREHOUSING AND MINING

Time : Two Hours] [Maximum Marks : 60

Note : (i) This question paper contains *three* questions with alternative choice.

(ii) All questions are compulsory.

(iii) Each question carries four Parts (a), (b), (c) and (d). Attempt either Parts (a) and (b) *or* (c) and (d) of each question.

(iv) Each Part carries **ten** marks. Total marks assigned to each question are **twenty**.

1. (a) What is data mining ? Explain the steps of data mining process. Give the sketch of the KDD process.
- (b) What is the use of data mining task ? What are the basic types of data mining tasks ? Explain with examples.

Or

- (c) Explain some of the major applications of data mining.

- (d) Write short notes on the following :
- (i) Data Characterization and Data Discrimination
 - (ii) Future of data mining.
2. (a) Describe the different methods for data cleaning.
- (b) (i) Specify the advantages of using concept hierarchies in data mining applications.
 - (ii) Define support and confidence in association rule mining.

Or

- (c) (i) Multilevel association rules vs. Multidimensional association rules
 - (ii) Ordinal attributes vs. Nominal attributes.
- (d) What is correlation analysis ? Strong rules are not necessarily interesting. Justify this statement.
3. (a) Define the following terms :
- (i) Model over fitting
 - (ii) Use of outlier analysis
- (b) Discuss data integration and data transformation in detail.

Or

- (c) Write short notes on the following :
- (i) FP growth
 - (ii) Issues regarding classification and prediction.
- (d) What is Decision Tree ? Explain how classification is done using Decision Tree Induction.