7E7033

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B. Tech. VII Sem. (Main/Back) Exam., Nov. – Dec. - 2017
Computer Science & Engineering
7CS3A Data Mining and Ware Housing
CS, IT

Time: 3 Hours **Maximum Marks: 80**
Min. Passing Marks: 26

Instructions to Candidates:

*Attempt any **five questions,** selecting **one question** from **each unit.** All questions carry **equal** marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.*

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL 2. NIL

UNIT-I

Q.1 (a) What is Data Mining? Explain its functionalities in detail. [8]

(b) Explain various Data reduction strategies of data mining to warehousing. [8]

OR

Q.1 (a) Explain the concept of Data Integration and Transformation. [8]

(b) What is Discretization and concept hierarchy generation? Explain. [8]

UNIT-II

Q.2 Explain Data generalization and Analytical characterization in detail. [16]

OR

Q.2 (a) Write and Explain Apriori algorithm. [8]

(b) Explain the Association Rules in Large Databases. [8]

UNIT-III

Q.3 What is classification and prediction? Explain various issues regarding classification and prediction in detail. [16]

OR

Q.3 (a) Write & Explain Back propagation algorithm. [8]

(b) Give advantages and disadvantages of decision tree approach over other approaches of Data-mining. [8]

UNIT-IV

Q.4 (a) Give differences between Database system and Data warehouses in detail. [8]

(b) Explain Multi dimensional Data model. [8]

OR

Q.4 (a) Explain 3-Tier architecture of Data warehousing. [8]

(b) Write short note on Data cubes and stars. [8]

UNIT-V

Q.5 (a) Explain OLAP functions and various tools associated in detail. [10]

(b) Write short note on Backup & Recovery. [6]

OR

Q.5 Write technical notes on- [4×4=16]

(a) Tuning Data Warehouse

(b) Testing Data Warehouse

(c) Data Mining Interface

(d) Data Mining Security