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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech III Year I Semester Supplementary Examinations July-2022****DATA WAREHOUSING AND DATA MINING**

(Common to CSE & CSIT)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a What motivated Data mining? Explain. L1 6M
b Explain Data mining as a step in the process of knowledge discovery. L2 6M

OR

- 2 a What is Data Reduction? Discuss in brief. L2 6M
b Determine the concept hierarchy generation for categorical data. L3 6M

UNIT-II

- 3 a Explain in detail about Fact constellation schema with an example. L2 6M
b Distinguish between OLTP and OLAP. L3 6M

OR

- 4 Explain about the Three-tier data warehouse architecture with a neat diagram. L3 12M

UNIT-III

- 5 a Explain about Apriori Algorithm with an example. L2 6M
b Describe the steps involved in improving the efficiency of the Apriori Algorithm. L3 6M

OR

- 6 a Explain about market basket Association mining. L2 6M
b Explain support, confidence and lift measure with respect to association rule mining. L2 6M

UNIT-IV

- 7 a Write a short notes on k nearest neighbor. L2 6M
b Distinguish between supervised and unsupervised learning. L3 6M

OR

- 8 a Explain about Bayesian belief networks with an example. L2 6M
b Summarize about attribute selection measures. L3 6M

UNIT-V

- 9 a Inference the working of k-means clustering. L3 6M
b Compare Agglomerative and Divisive hierarchical clustering. L2 6M

OR

- 10 a Discuss in detail about the Applications and trends in Data Mining. L2 6M
b Describe the working of PAM algorithm. L2 6M

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