

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

B.Tech III Year II Semester Regular Examinations August-2023

DATA WAREHOUSING AND DATA MINING

CSE (Internet of Things and Cyber security Including Block Chain Technology)

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

- 1 a Explain about data mining. On what kind of data. CO1 L2 6M
b What is Data Reduction? Discuss in brief. CO1 L2 6M

OR

- 2 a Why do we pre-process the data? Discuss? CO1 L2 6M
b Explain about Data Transformation in data Mining. CO1 L2 6M

UNIT-II

- 3 a Discuss in brief about Multi-dimensional data model. CO2 L2 6M
b Explain in detail about the key feature of Data Warehousing. CO2 L2 6M

OR

- 4 Define OLAM? Construct the architecture of OLAM. CO2 L2 12M

UNIT-III

- 5 a Explain about market basket analysis in Association Mining. CO3 L2 6M
b Explain about FP Growth Concept in Detail? CO4 L2 6M

OR

- 6 Make use of the database which has five transactions. Let minimum support=60% and minimum confidence=80%.

Transaction	Items
T10	M, O, N, K, E, Y
T20	D, O, N, K, E, Y
T30	M, A, K, E
T40	M, U, C, K, Y
T50	C, O, O, K, I, E

CO4 L3 12M

Find all frequent itemsets using FP-growth.

UNIT-IV

- 7 a Define Decision Tree. Why are decision tree classifiers so popular? CO5 L2 6M
b Discuss about Rule based Classification method. CO5 L2 6M

OR

- 8 What is prediction? Explain about Linear regression method. CO5 L1 12M

UNIT-V

- 9 a Define Clustering. List basic requirements of cluster analysis. CO6 L1 6M
b Inference the working of k-means clustering. CO6 L4 6M

OR

- 10 Discuss in detail about the Applications and trends in Data Mining. CO6 L2 12M

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