| O.P.Code:20CS0517 | R20 | H.T.No. | | | | | | | | | |
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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**
(AUTONOMOUS)
**B.Tech III Year II Semester Regular & Supplementary Examinations June-2025**
**DATA WAREHOUSING AND DATA MINING**
(Common to CCC, CAI & CIC)

**Time: 3 Hours** **Max. Marks: 60**

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

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|---|---|---|---|---|---|
| | | **UNIT-I** | | | |
| 1 | a | Define Data mining. What are all points to be discussed to motivated at a mining? | CO1 | L1 | 6M |
| | b | Explain Data mining as a step in the process of knowledge discovery. | CO1 | L2 | 6M |
| | | **OR** | | | |
| 2 | a | Explain about Data Transformation in data Mining. | CO2 | L2 | 6M |
| | b | Discuss Data Reduction techniques in detail. | CO1 | L1 | 6M |
| | | **UNIT-II** | | | |
| 3 | a | Discuss in brief about Multi-dimensional data model. | CO2 | L3 | 6M |
| | b | Why have a Separate Data Warehouse? | CO2 | L2 | 6M |
| | | **OR** | | | |
| 4 | a | Explain the Role of Concept Hierarchies in dimension. | CO2 | L2 | 6M |
| | b | Classify a Starnet Query Model. How will involve i n Multidimensional Databases. | CO2 | L2 | 6M |
| | | **UNIT-III** | | | |
| 5 | a | Explain about market basket analysis in Association rule Mining. | CO3 | L2 | 6M |
| | b | Explain support, confidence and lift measures with respect to Association Mining. | CO3 | L2 | 6M |
| | | **OR** | | | |
| 6 | a | Outline FP growth algorithm with an example. | CO4 | L2 | 6M |
| | b | How will measure from Association Analysis to Correlation Analysis. | CO4 | L2 | 6M |
| | | **UNIT-IV** | | | |
| 7 | a | Define Decision Tree. Why are decision tree classifiers so popular? | CO5 | L2 | 6M |
| | b | Outline the concept of Classification by Decision Tree Induction. | CO5 | L2 | 6M |
| | | **OR** | | | |
| 8 | a | Discuss Bayes theorem with an example. | CO5 | L2 | 6M |
| | b | Explain the Classification by Back Propagation with an example. | CO5 | L2 | 6M |
| | | **UNIT-V** | | | |
| 9 | a | Define Clustering and List basic requirements of cluster analysis. | CO6 | L1 | 6M |
| | b | Describe the working of Partitioning Around Medoids (PAM) algorithm. | CO6 | L2 | 6M |
| | | **OR** | | | |
| 10 | a | Discuss the key issues in hierarchical clustering algorithm. | CO6 | L2 | 6M |
| | b | How clusters are identified using DBSCAN algorithm? | CO6 | L1 | 6M |

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