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

**B.Tech IV Year I Semester Regular Examinations Nov/Dec 2019**

DATA WAREHOUSING AND DATA MINING

**(Computer Science & Engineering)**

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a What is KDD? Explain about data mining as a step in the process of knowledge discovery. **6M**  
b How to classify data mining systems? Discuss. **6M**

**OR**

- 2 Explain in detail about Data mining functionalities. **12M**

**UNIT-II**

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

**OR**

- 4 a What are steps in designing the data warehouse? Explain. **6M**  
b Compare OLTP and OLAP. **6M**

**UNIT-III**

- 5 a Discuss about basic concepts of frequent item set mining. **6M**  
b Describe the Apriori Algorithm. **6M**

**OR**

- 6 Can we design a method that mines the complete set of frequent item sets without candidate generation? If yes, explain with an example. **12M**

**UNIT-IV**

- 7 How does the Naïve Bayesian classification works? Explain in detail. **12M**

**OR**

- 8 a What is Bayes theorem? Explain. **6M**  
b What is prediction? Explain about Linear regression method. **6M**

**UNIT-V**

- 9 a Differentiate AGNES and DIANA algorithms. **6M**  
b Write the key issue in hierarchical clustering algorithm. **6M**

**OR**

- 10 Discuss in detail about Data mining Applications. **12M**

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