

T.E. Sem VI (IT) / C-scheme / Dt 16/12/2025 / Max Marks: 80
 N.B.: 1) Question No. 1 is compulsory. / PPL - 95206

(1/1)

- Q.1 20
- A Define different types of attributes with examples.
 - B Compare OLTP and OLAP operations
 - C Define "Business Intelligence" and "Decision Support System" with example.
 - D Give difference between classification and clustering
- Q.2 10
- A Explain multidimensional and multilevel association rule with example
 - B Explain DBSCAN algorithm using appropriate diagrams 10
- Q.3 10
- A Explain bagging and boosting in classifiers in brief.
 - B Using Hierarchical clustering algorithm to cluster the following 8 points into 3 clusters $A_1=(2,10)$, $A_2=(2,5)$, $A_3=(8,4)$, $A_4=(5,8)$, $A_5=(7,5)$, $A_6=(6,4)$, $A_7=(1,2)$, $A_8=(4,9)$. 10
- Q.4 10
- A Explain Market-Basket analysis with example.
 - B Describe Birch algorithm in detail. 10
- Q.5 10
- A Explain in detail Data mining steps in KDD. Explain its Architecture
 - B Suppose that data for analysis includes the attribute age. The age values for data tuples are (in increasing order): 10
- 13,15,16,16,19,20,20,21,22,22,25,25,25,25,30,33,33,33,35,35,35,35,36,40,45,46,52,70
- i) What is mean of data? What is median of data?
 - ii) What is mode of data? Comment on data's modality.
 - iii) What is mid-range of data?
 - iv) Give the five- point summary of the data.
 - v) Show box plot of the data.
- Q.6 10
- A Explain Decision tree classification algorithm
 - B Explain simple linear Regression with example. 10
