

M.Phil/Pre Ph.D Regular & Supplementary Examinations – OCTOBER, 2023
R210403A
Paper –III: Data Mining.
COMPUTERS

Time : 3 hrs

Maximum Marks : 100

Answer One Question from Each Unit
All Questions Carry Equal Marks

UNIT – I

1. a) Write algorithm for classification by decision tree induction.
b) Explain about the classification using frequent pattern mining.
OR
2. a) Explain the Bayesian belief networks.
b) Explain about AOI for data Characterization. How to implement attribute oriented induction technique?

UNIT – II

3. a) Describe different types of data in cluster analysis.
b) Explain about the Hierarchical methods in cluster analysis.
OR
4. a) What is DBSCAN? Explain
b) Cluster the following points into three clusters using k-means algorithm.
(Assume Distance function is Euclidean):
{16, 2, 4, 10, 12, 3, 20, 9, 30, 11, 25, 30, 28, 19}.

UNIT – III

5. a) How to measure Data Similarity and Dissimilarity in Multimedia? Explain with example.
b) Explain about the mining association in multimedia in detail.
OR
6. a) Discuss about the similarity in multimedia in detail.
b) Explain about the advantages of multimedia in detail.

UNIT – IV

7. Elucidate the meaning of web mining in various cases of WWW.
OR
8. What are search engines how do they work? Discuss the mechanism of weighted ranking web pages to optimize the search.

UNIT – V

9. Explain the methods for mining request sub graphs in detail.
OR
10. What is the role of the graph mining? Explain about the classification and clustering in graph mining.
