

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRD SEMESTER M. TECH DEGREE EXAMINATION

Computer Science & Engineering
(Computer Science & Systems Engineering)

04CS7411—Data Mining

Max. Marks: 60

Duration: 3 Hours

PART A

Answer All Questions

Each question carries 3 marks

1. Write about the different data mining issues.
2. Explain point estimation using an example.
3. How to generate rules from a neural net?
4. Differentiate between similarity and distance measures.
5. Describe the method to find large itemsets?
6. Explain the importance of personalization.
7. Describe spatial data structure with an example.
8. What do you mean by trend analysis?

PART B

Each question carries 6 marks

9. List and explain various data mining models and tasks.
OR
10. Explain the various implementation issues associated with data mining.
11. Mention the major advantages of genetic algorithm and why it is called as an evolutionary computing method.
OR
12. Explain the different regression methods/models with examples.
13. Illustrate the classification technique using Bayesian classification with an example.
OR
14. Describe the back propagation algorithm for a multi-layer neural network.
15. Illustrate any one of the agglomerative clustering algorithms with an example.
OR
16. Explain DBSCAN density clustering algorithm with diagrams.
17. Give an example for Apriori with transactions and explain Apriori-gen algorithm.
OR
18. Describe about advanced association rule techniques.
19. Explain any technique used to model a sequence of temporal events with an example?
OR
20. How the page rank concept works for web structure mining?