

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

SECOND SEMESTER M.TECH DEGREE EXAMINATION (Regular), MAY 2023**COMPUTER SCIENCE AND SYSTEMS ENGINEERING****(2021 Scheme)****Course Code: 21SE204-B****Course Name: Data Mining****Max. Marks: 60****Duration: 3 Hours****PART A*****(Answer all questions. Each question carries 3 marks)***

1. Compare and contrast predictive and descriptive model.
2. Explain simple linear regression.
3. List any three decision tree algorithm's names?
4. How is distance between the clusters measured?
5. Explain about incremental rules.
6. Give an example for Apriori algorithm with transaction.
7. What is the use of k-D tree? Give an example
8. What you mean by trend dependencies.

PART B***(Answer one full question from each module, each question carries 6 marks)*****MODULE I**

9. Identify and describe the phases in the KDD process. How does KDD differ from data mining? (6)

OR

10. Describe briefly about various data mining tasks with examples (6)

MODULE II

11. How are similarity measures defined and applied to the items in a database? List and explain any three common similarity measures used. (6)

OR

12. Explain an artificial neural network in detail. How is feed forward neural network differs from feedback neural networks? (6)

MODULE III

13. What are decision trees? Explain a simple decision tree algorithm (6)

OR

14. With a neat diagram, explain Support Vector Machine (SVM). (6)

MODULE IV

15. Illustrate hierarchical clustering algorithm with an example. (6)

OR

16. Demonstrate DBSCAN clustering with an example (6)

MODULE V

17. Explain parallel and distributed algorithms. (6)

OR

18. With example explain Sampling algorithm. (6)

MODULE VI

19. Explain the spatial data structures involved in spatial mining? (6)

OR

20. What do you mean by Web content mining? Describe the working of any one of the web content mining methods. (6)
