APRIL 2023 **51343/SZ26B**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are the advantages of association rules?
2. Write a note on prediction.
3. What is classification?
4. Define; "Bayes Theorem".
5. What are the difference between the regression and correlation?
6. Show the use of similarity measures.
7. What is CART?
8. Give the purpose of C4.5.
9. Define: "Divisive Clustering".
10. What do you mean by Perceptrons?
11. State the large itemsets in association rules.
12. Mention the multiple-level association rules.

III BCA → Data Mining

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Summarize the metrics of data mining.

14. What are the social implications of data mining? Explain.

15. Explain the implementation of decision trees in data mining.

16. Describe the simple approach of distance-based algorithms.

17. Elaborate the purpose of neural network supervised learning.

18. Bring out the steps to generating rules from a neural net.

19. Distinguish between the data parallelism and task parallelism.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Outline the data mining and knowledge discovery in databases.

21. Discuss the statistical perspective on data mining.

22. Illustrate the activation functions in neural networks.

23. Examine the regression in statistical-based algorithms.

24. Demonstrate the implementation of Apriori algorithm with simple example.

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