MAY 2025 **P/ID 16307/PITE2**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Define data warehouse.

2. What is meant by overfitting?

3. How to clean the data?

4. What are the benefits of data reduction?

5. Mention any two applications of data mining.

6. Write a short note on multilevel association rules.

7. Name the types of back propagation.

8. Write some examples of prediction methods.

9. What is meant by classification?

10. Classify the four types of cluster analysis.

11. What is a hierarchical method?

12. Where is clustering used?

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. What are the social implications of data mining?

14. What is a heterogeneous database. Explain with an example?

15. Demonstrate the steps involved in data transformation.

16. Specify the limitations of apriori algorithm.

17. What is bayesian classification?

18. Explain the essential characteristics of outlier analysis?

19. Name the various tasks of spatial mining methods

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. What are the data discretization techniques in preprocessing?

21. Illustrate the concepts of multidimensional association rules.

22. Give Detail about the features of decision tree induction.

23. Explain about temporal mining.

24. Narrate the types of density-based methods in data mining in depth.

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