Reg. No. | | | | | | | | |

PART– A   (10×2=20)

1. a) Define Data Mining.

    b) What is supervised learning ?

    c) Define Border Set and Maximal Frequent Set.

    d) Define (i) Noise (ii) Core Object.

    e) List the structures used in Dynamic Itemset Counting algorithm.

    f) Define clustering.

    g) Define splitting attribute.

    h) Define overfit.

    i) What is Neural Network ?

    j) Define intrinsic and transverse links.

    k) What is spatial data mining ?

    l) List the types of temporal data.

PART – B

Unit – I

2. a) Explain various issues and challenges in Data Mining.

    b) Explain Data Warehouse Architecture with a neat diagram.

    c) Compare ROLAP and MOLAP.

3. a) What are Data Marts ? List and explain different types of Data Marts.

   b) Explain star schema and snowflake schema with neat diagram.

   c) Explain Data Warehouse back end process.   (3+6+6)

Unit – II

4. a) Explain Apriori algorithm with example.

   b) What is Hierarchical clustering ? List and explain different types of hierarchical clustering techniques.

   c) Write a note on PAM.   (7+4+4)

5. a) Explain Partition algorithm with example.

   b) Write a note on Pincer Search algorithm.

   c) Write a note on STIRR.   (7+4+4)

Unit – III

6. a) List advantages and drawbacks of decision trees.

   b) What is RBFN ? Explain with a neat sketch.

   c) Explain the mutation and crossover operations in Genetic Algorithms.   (5+4+6)

7. a) Explain the structure of an Artificial Neuron with neat sketch.

   b) Explain SVM.

   c) What is rough set ? Explain with an example.   (4+5+6)

Unit – IV

8. a) Write a note on Web Content Mining.

   b) List the features of unstructured text.

   c) List and explain various temporal data mining tasks.   (4+5+6)

9. a) Write a note on Web Usage Mining.

   b) Explain GSP algorithm.

   c) Explain Episode Rule Discovery for texts.   (5+5+5)

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