

19. (a) Discuss in detail, Hierarchical Algorithms.

Or

(b) Explain about Apriori Algorithm with example.

20. (a) Explain about Web Content Mining.

Or

(b) Describe about Spatial Clustering Algorithms.

Reg. No. :

Code No. : 6447

Sub. Code : C 2 CD

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2011.

Second Semester

Computer Science — Main

Elective — DATA MINING

(For those who joined in July 2008 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. Define : Data Mining.
2. Write a note on : Prediction.
3. Define : Point Estimation.
4. Define : Decision Tree.
5. Define : classification Problem.

6. What is meant by Unsupervised Learning?
7. What is meant by Hierarchical Clustering ?
8. Define : Association Rule.
9. Define : Web Usage Mining.
10. Write a note on : Hidden Markov Model.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write short notes on : KDD Process.
Or
(b) Discuss about any Four issues of Data Mining.
12. (a) Discuss briefly about Point Estimation with an example.
Or
(b) Write about Similarity Measures.
13. (a) What are Rule-Based Algorithms? Discuss briefly about them with examples.
Or
(b) Discuss about the algorithm to generate rules from a Decision Tree.

14. (a) Discuss about Apriori Algorithm.
Or
(b) Write about Clustering with categorical Attributes.
15. (a) Discuss briefly about Spatial Data Structures.
Or
(b) Write about Generalization.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Explain about Basic Data Mining Tasks.
Or
(b) Discuss in detail, Data Mining Issues.
17. (a) Explain about various similarity measures.
Or
(b) Discuss in detail, Neural Networks.
18. (a) Explain about Statistical Based Algorithms.
Or
(b) Describe in detail, Distance Based Algorithms.