



K25U 2522

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular)

Examination, November 2025

(2023 Admission)

CORE COURSE IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

5B13A AIML : Data Mining

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions.

(6×1=6)

1. Mention any two algorithms for hierarchical method of clustering.
2. What do you mean by core point in DBSCAN ?
3. What is an outlier ?
4. What is a categorical variable ? Give example.
5. What is support ?
6. What is a fact table ?

SECTION – B

Answer **any 6** questions.

(6×2=12)

7. What do you mean by data mining ?
8. What are the features of a data warehouse ?
9. What is a frequent itemset ? Give an example.
10. What do you mean by interestingness ?
11. What is synonymy problem in text mining ?
12. What is interval-scaled variables ? Give an example.
13. What is DBSCAN ?
14. What is STIRR ?

P.T.O.



SECTION – C

Answer **any 4** questions.

(4×3=12)

15. Explain the idea behind CLARA.
16. Differentiate bottom-up and top-down strategy in hierarchical clustering.
17. Explain decision tree and its uses.
18. Explain concept hierarchy with examples.
19. Explain classification in data mining.
20. Explain Web structure mining.

SECTION – D

Answer **any 2** questions.

(2×5=10)

21. Differentiate between OLAP and OLTP.
22. Explain how to calculate information gain with an example.
23. Explain the applications of clustering.
24. Explain different types of association rules with examples.