



QP CODE: 26019142



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc COMPUTER SCIENCE

ELECTIVE - CA810403 - DATA ANALYTICS

2019 Admission Onwards

B71E612B

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is semi-structured data? Give example.
2. Define sampling distributions.
3. What do you understand by regression analysis?
4. How principal components analysis can be used for dimensionality reduction?
5. Write a short note on filtering of streams.
6. What do you understand by decaying windows?
7. What do you understand by frequent item sets mining?
8. What is the importance of Toivonen's algorithm?
9. Write a note on CLIQUE algorithm.
10. What is frequent pattern analysis?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. What do you understand by web data? Explain.
12. Explain bootstrap sampling method in detail.
13. What are neural networks? Describe learning and generalization in single layer perceptron.





14. What is mean by data stream? What are its characteristics?
15. Discuss Alon-Matias-Szegedy algorithm for second moments. Give example.
16. Describe the market based model in detail.
17. Discuss different types of clustering.
18. Write the common distance measures available.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. With the help of a block diagram explain the data analysis process in detail.
20. Describe support vector machines in detail. Explain its working mechanism. Also describe about SVM kernel functions.
21. Demonstrate PCY algorithm in detail with the help of a suitable example.
22. Describe the working of K-Means clustering algorithm with the help of a diagram.

(2×5=10 weightage)

