

QP CODE: 22001007



Reg No	:	
Name	:	

M Sc DEGREE (CSS) EXAMINATION, APRIL 2022 **Third Semester**

Faculty of Science

M Sc COMPUTER SCIENCE (DATA ANALYTICS)

Elective - CA860301 - SOCIAL MEDIA MINING

2019 ADMISSION ONWARDS

A9E3A2C3

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

Answer any eight questions.

Weight 1 each.

- 1. What is a graph in social media? How is it represented? Illustrate.
- 2. Write short note on a)complete graph b) Planar graph c)Regular graph d)bridges.
- Explain vector space model.
- 4. How can we evaluate supervised learning algorithm?
- 5. What are the types of information diffusion?
- 6. Define the term epidemics, Susceptible, infected and recovered.
- 7. Which are the methods used for measuring influence?
- Define the goal of a recommendation system.
- Differentiate between hitting time and commute time.
- 10. Differentiate site migration and attention migration?

(8×1=8 weightage)

Part B (Short Essay/Problems)

Answer any six questions. Weight 2 each.

- 11. Briefly Explain characteristics of Social Media.
- 12. Explain Minimum Spanning Tree algorithms.
- 13. Discuss about clustering algorithms in unsupervised learning.
- 14. Write short note on balanced communities.



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- 15. Describe evaluation of community in network briefly.
- 16. Explain the method of homophily modelling.
- 17. Explain in detail about collaborative filtering recommendation algorithms.
- 18. Explain the methodology used for analysis of community-joining behavior.

(6×2=12 weightage)

Part C (Essay Type Questions)

Answer any **two** questions.

Weight **5** each.

- 19. Explain about three principal network models in social Media Mining.
- 20. Describe data quality ,features and preproceesing in detail.
- 21. Describe how networks are evolved? explain community detection in evolving networks.
- 22. Explain the methods used for distinguishing Influence and Homophily.

(2×5=10 weightage)

