



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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End - Term Examinations – MAY 2025

Date: 29-05-2025

Time: 09:30 am – 12:30 pm

School: SOCSE	Program: B. Tech (CSD)	
Course Code: CSE3039	Course Name: Social Media Analytics	
Semester: VI	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	26	26	24	24	

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

10Q x 2M=20M

1.	Differentiate Public and Private data.	2 Marks	L1	C01
2.	List any two social media analytics Tools and applications.	2 Marks	L1	C01
3.	Define Restful API.	2 Marks	L1	C01
4.	Define Greedy Clustering.	2 Marks	L1	C02
5.	Define keyword search.	2 Marks	L1	C02
6.	What is Hierarchical clustering?	2 Marks	L1	C02
7.	Differentiate Ego networks and Whole Networks.	2 Marks	L1	C03
8.	What is Behavior Modeling?	2 Marks	L1	C03
9.	Define Face book mining.	2 Marks	L1	C04
10.	List the different types of authentications supported by twitter.	2 Marks	L1	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Explain the different types of social media platform and its applications.	10 Marks	L2	C01
	b.	Describe the different layers of social media data analytics.	10 Marks	L2	C01
Or					
12.	a.	Discuss the text cleaning process of social media data and develop the python code for cleaning the following Tweet Tweet "I'm really disappointed with the #iPhone14. It took them 1 years to change the screen & size. Let down."	10 Marks	L2	C01
	b.	Explain the different types of social media API with its applications.	10 Marks	L2	C01

13.	a.	Demonstrate the bag of words and vector space methods for text analytics and develop the python code for calculate the inverse document frequency of the following three documents: D1: Good boy D2: Good girl D3: boy girl Good	15 Marks	L3	C02
	b.	Explain social media mining techniques with neat diagram.	5 Marks	L2	C02

Or											
14.	a.	Demonstrate the Naïve Bayes classifier. Apply the Naïve Bayes classifier for classification the following social media data <table><tr><th>Cat</th><th>Documents</th></tr><tr><td>Training</td><td>- just plain boring - entirely predictable and lacks energy - no surprises and very few laughs + very powerful + the most fun film of the summer</td></tr><tr><td>Test</td><td>? predictable with no fun</td></tr></table>	Cat	Documents	Training	- just plain boring - entirely predictable and lacks energy - no surprises and very few laughs + very powerful + the most fun film of the summer	Test	? predictable with no fun	15 Marks	L3	C02
Cat	Documents										
Training	- just plain boring - entirely predictable and lacks energy - no surprises and very few laughs + very powerful + the most fun film of the summer										
Test	? predictable with no fun										
	b.	Explain Keyword search with suitable algorithm.	5 Marks	L2	C02						

15.	a.	Discuss the different types of centralities of social media network and apply the closeness centrality method to calculate the Least and most central node of the following Graph.	15 Marks	L3	C03
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	b.	Explain the Jacquard similarity method with suitable example.	5 Marks	L2	C03
Or					
16.	a.	Explain the various application of Page ranking algorithm in social media data analytics and apply the python code to calculate the node rank of the following Graph.	15 Marks	L3	C03
	b.	Describe the individual Behavior Analysis of the social media users.	5 Marks	L2	C03
17.	a.	Apply the step-by-step procedure for generating the access token of face book for developing the new application.	15 Marks	L3	C04
	b.	Explain the procedure to Connects Graph API and Query for the Profile of the Authenticated social media User.	5 Marks	L2	C04
Or					
18.	a.	Discuss and Develop a Python program for customized sentiment analysis of the social media user. Explain each step, from loading the dataset to evaluating the model's performance with appropriate metrics.	15 Marks	L3	C04
	b.	Describe the application of three different Face book APIs.	5 Marks	L2	C04