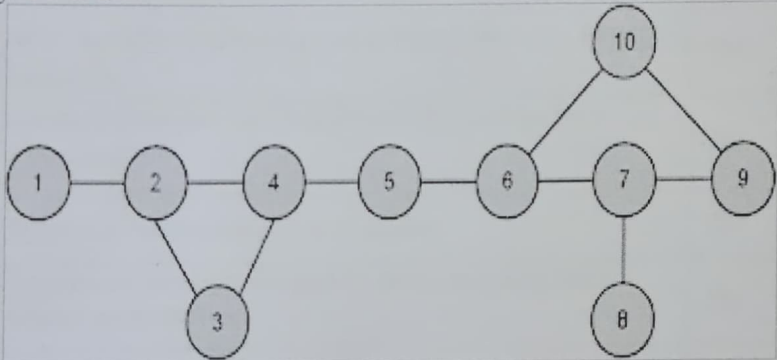


Vivekanand Education Society's Institute of Technology, Chembur, Mumbai,
Department Of AI and DS
Year:2023-2024 (even sem)
Mid-Term Test

Class : D16 AD	Division: ---
Semester: VIII	Subject: Social Media Analytics
Date: 28 Feb 2024	Time: 1 hr

Q.1)	(Attempt any five of the following)	Marks (total 20)
a)	Give 2 examples for Social media. Justify your choice with reasons	2M
b)	List any 2 types of social media with 2 examples for each	2M
c)	What do you understand by "diameter" of a social graph. Illustrate with an example	2M
d)	"Social network Visualization is a challenge". Justify this statement giving valid reasons	2M
e)	Define Egocentric networks. Illustrate the importance of such networks using 2 examples	2M
f)	Explain why text analytics in social media is a complex task.	2M
Q.2)	<p>Consider the following social graph. Answer Questions A or B given below.</p> 	
a)	i. Represent the graph as adjacency matrix ii. Compute Degree Centrality for all the nodes	i. 02 ii. 03
	OR	
b)	i. Represent the graph as adjacency list ii. Compute Closeness Centrality for all the nodes	i. 02 ii. 03
Q.3)	For any one of the following applications, describe the steps of Social media text analytics process. Your solution will describe the following: Objective, Implementation and Results	
a)	A political party wants to improve its chances of winning an election using text data from social media	5 M
	OR	
b)	A Hotel chain wants to identify some new places to put up their hotels. They are interested in knowing preferences of customers, popular places activities etc from social media	5 M

Class : D17

Semester: VIII

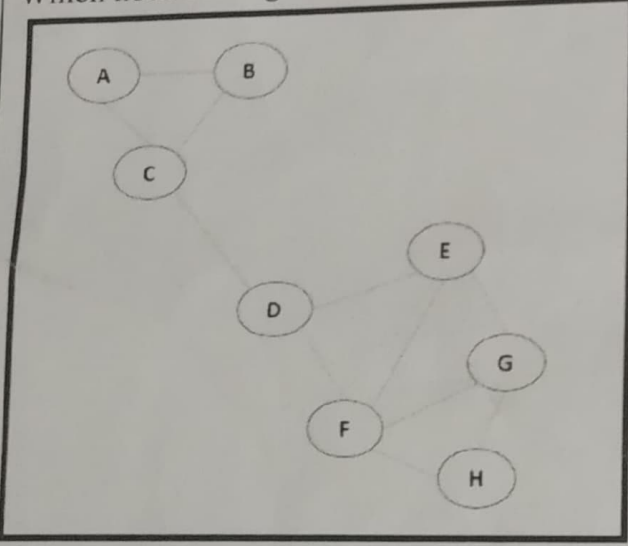
Date: 28/02/2024

Division: A/B/C

Subject: SMA

Time: 10:30 am to 11:30 am

CO	CO1	CO2	CO3
%	30%	35%	35%

Q1		(Attempt any five of the following)	Marks (20)	COs Mapped
	a)	How can an Insurance Company use social media analytics effectively?	2M	CO1
	b)	Compare social media hyperlink analytics with social media action analytics?	2M	CO3
	c)	Justify the significance of Tie strength and Trust for social media analysis ?	2M	CO2
	d)	How do likes, shares, and comments contribute to overall social media performance?	2M	CO3
	e)	State the problems and limitations of social media analytics?	2M	CO1
	f)	What is Hyperlink impact analysis ?	2M	CO3
Q2	a)	<p>Find out the closeness centrality of each node? Which node has highest closeness centrality?</p> 	5M	CO2
		OR		

b)	What are common types of social media networks and explain social network analytics tools?	5M	
a)	How does social media analytics differ from traditional business analytics, and explain the seven layers of social media analytics?	5M	
OR			
b)	What are the different types of social media text, and explain the text analytics cycle?	5M	



Vivekanand Education Society's Institute of Technology

An Autonomous Institute Affiliated to University of Mumbai

End Semester Examination Summer 2024

Max marks: 60

Branch: Computer Engineering

Name of the Course: Social Media Analytics

Course code: CSDC8023

Duration: 2 hours

Semester: VIII

QP Code: R23-CSDC8023_032023-24

- N.B.** (1) Attempt any three out of the five questions.
(2) Figures to the right indicate full marks.
(3) Assume suitable data if necessary.

	Marks
Q.1 (a) Explain Social Media Alignment Matrix.	5
(b) Justify, giving suitable examples, significance of Tie Strength and Trust for Social Media Analytics.	5
(c) Write a short note on "Digital Marketing".	5
(d) Explain the Seven Layers of Social Media Analytics with suitable diagram	5
Q.2 (a) Demonstrate the sources of Location Data and the categories of Location Analytics.	10
(b) Explain the different type of Social Media text and the Text Analytics Cycle with a neat diagram.	10
Q.3 (a) Explain the two main categories of Search Engine Analytics.	10
(b) Demonstrate the common Social Media Network Types and explain the node level properties.	10
Q.4 (a) Differentiate between Traditional and Social Recommendation Systems.	10
(b) Discuss the Core Characteristics of Social Media. State the problems and limitations of Social Media Analytics.	10
Q.5 (a) Define Social Media Actions Analytics. What are the common Social Media Actions? What are the Social Media Actions Analytics Tools?	10
(b) Describe the privacy issues and policies in Social Media? Explain how to maintain privacy online?	10

X-----X-----X-----X

QP Code: R23-CSDC8023_032023-24