D:4	.d D-	Cubicat Codo. A CCA 10/22NI						
Printe	eu Pa	ge:- Subject Code:- ACSAI0622N Roll. No:						
NO	IDA	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA						
110	(An Autonomous Institute Affiliated to AKTU, Lucknow)							
	B.Tech							
		SEM: VI - THEORY EXAMINATION (20 20)						
m·	2.1	Subject: Social Media Analytics						
		Hours Max. Marks: 100 structions:						
		y that you have received the question paper with the correct course, code, branch etc.						
		estion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice						
		MCQ's) & Subjective type questions.						
		n marks for each question are indicated on right -hand side of each question.						
		your answers with neat sketches wherever necessary.						
		suitable data if necessary.						
-		ly, write the answers in sequential order. should be left blank. Any written material after a blank sheet will not be						
		hecked.						
SECT	ION-	<u>-A</u> 20						
1. Atte	empt a	all parts:-						
1-a.	•	all parts:- rull form of NER is:(CO1,K1) Named Entity Recognition						
	(a)	Named Entity Recognition						
	(b)	Neural Entity Recognition						
	(c)	Name entity Representation						
	(d)	Name Entry Recognition						
1-b.	F	eature-based opinion mining focuses on-(CO1,K1)						
	(a)	Whole document sentiment						
	(b)	Sentiment about specific features						
	(c)	Sentence tokenization						
	(d)	Topic clustering						
1-c.	T	The goal of web usage mining is_(CO2,K1)						
	(a)	Extracting useful information from web page content						
	(b)	Analyzing the structure of hyperlinks						
	(c)	Understanding user behavior on the web						
	(d)	Identifying relationships between web pages						
1-d.	T	The process by which a search engine collects and stores information about web						
		ages_(CO2,K1)						
	(a)	Crawling						
	(b)	Indexing						

	(c)	Ranking				
	(d)	Query processing				
1-e.	T	he term describing the spread of information through a social network.(CO3,K1)	1			
	(a)	Social networking				
	(b)	Social diffusion				
	(c)	Social amplification				
	(d)	Social contagion				
1-f.	A common metric for measuring the rate of information diffusion:(CO3,K1)					
	(a)	Impressions				
	(b)	Click-through rate				
	(c)	Engagement rate				
	(d)	Reach				
1-g.	S	paCy is mainly used for:(CO4,K1)	1			
	(a)	Video editing				
	(b)	Natural language tasks				
	(c)	Image classification				
	(d)	File compression				
1-h.	T	F-IDF gives high score to words that are:(CO4,K2)	1			
	(a)	Common across all docs				
	(b)	F-IDF gives high score to words that are:(CO4,K2) Common across all docs Unique to a doc Stopwords				
	(c)	Stopwords				
	(d)	None				
1-i.	T	he following are the movement(s) in the secular trend:(CO5,K1)	1			
	(a)	Smooth				
	(b)	Regular				
	(c)	Steady				
	(d)	All of the above				
1-j.	T	The term adopted for updates by Twitter users is:(CO5,K1)				
	(a)	Twoots				
	(b)	Tweets				
	(c)	Post				
	(d)	Twinks				
2. Att	empt a	all parts:-				
2.a.	W	Vrite the purpose of removing stop words in text preprocessing.(CO1,K1)	2			
2.b.	D	efine Types of Web Mining.(CO2,K1)	2			
2.c.	D	efine edges in a social graph.(CO3,K1)	2			
2.d.		xplain why sentence position is important in extractive summarization echniques.(CO4,K3)	2			

2.e.	Describe the future of social media analytics.(CO5,K2)	2
SECT	ION-B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Describe semantic analysis applications in the healthcare domain.(CO1,K2)	6
3-b.	Compare the use of N-gram and Bag-of-Words in feature representation.(CO1,K4)	6
3-c.	Explain Web Mining and its Applications.(CO2,K2)	6
3-d.	Explain Interaction, Latent and Following Graphs.(CO2,K1)	6
3.e.	Describe how recommendations are generated in social media.(CO3,K2)	6
3.f.	Compare how summarization approaches vary for single-document vs. multi-document summarization tasks.(CO4,K4)	6
3.g.	Explain various advantages and disadvantages of trend analysis.(CO5,K2)	6
SECTI	ION-C	50
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Explain how N-gram models work. Discuss their advantages and limitations.(CO1,K2)	10
4-b.	List and explain key preprocessing steps in text mining with examples.(CO1,K2)	10
5. Ansv	wer any <u>one</u> of the following:-	
5-a.	Explain the concept of Web Structure Mining, outlining its techniques, key components, and role in discovering structural patterns on the web.(CO2,K2)	10
5-b.	Describe the Importance of Query Optimization and all the Factors Influencing Query Performance in detail .(CO2,K2)	10
6. Ansv	wer any <u>one</u> of the following:-	
6-a.	State ways to measure influence in social networks and methods for identifying influential nodes or communities.(CO3,K1)	10
6-b.	Explain how predictive models assist in decision-making in social media analytics with examples.(CO3,K2)	10
7. Ansv	wer any one of the following:-	
7-a.	Compare and contrast extractive and abstractive summarization with suitable examples.(CO4,K3)	10
7-b.	Explain how anomaly detection and trend detection are useful in text mining with examples.(CO4,K2)	10
8. Ansv	wer any <u>one</u> of the following:-	
8-a.	Explain the term trend analysis in social media. Explain five social media trends.(CO5,K2)	10
8-b.	Describe Twitter Analytics. How to access twitter analytics.(CO5,K3)	10