## Paper / Subject Code: 42981 / Text, Web and Social Media Analytics (DS)

## $CMP/IT/EXTC/MECH-8 \quad 08-06-24 \quad 103(40)+104(40)+201(14)+205(33)+206(01)=128$

Duration: 3 hrs	[Max Marks: 80]
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N.B.: (1) Que	stion No 1	is Com	pulsory.
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- (2) Attempt any three questions out of the remaining five.
- (3) All questions carry equal marks.
- (4) Assume suitable data, if required and state it clearly.

1	Att	empt any FOUR	[20]
	а	What is opinion mining? List the challenges of opinion mining?	[5]
	b	What are the types of spamming techniques? Explain any two techniques in	[5]
		detail.	10
	_c	Compare Hidden Markovian Models (HMM) with Conditional Random Fields (CRF).	[5]
	∠d	Explain N-gram modeling and its applications.	[5]
	е	What are the challenges of social media mining?	[5]
2	a	Explain with block diagram Named Entity Recognition application.	[10]
	b	Discuss any two Distance-based Clustering Algorithms.	[10]
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3	a	What is Latent Semantic Indexing? What are the benefits of Latent Semantic Indexing?	[10]
1	b	Explain the working of opinion spam detection application	[10]
	Per	Write a short note on K-NN classifier.	[10]
4	a		[10]
	b	Explain different data sources and the web usage mining process in detail.	[IV]
1,		1 A shall also for toyt document classification	[10]
5	a	Explain feature selection techniques for text document classification.  What are the different types of social media graphs? Explain recommendations	[10]
e e	b`	What are the different types of social media graphs: Explain recommendations using social context in detail.	[20]
100		Explain the working of web search engine.	[10]
Æ	) a	Explain the working of web search engage.  Explain the supervised techniques of sentiment classification.	[10]
	b	Explain the supervised techniques of solutions of solutions	