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Correct	Reg. No.:	
9	Question Paper Code: 90406	
	B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.	
	Sixth/Seventh Semester	
	Computer Science and Engineering	
· ·	CS 8091 – BIG DATA ANALYTICS	
(0	common to: Computer and Communication Engineering/Information Technology)	
	(Regulations 2017)	
Tii	ne : Three hours Maximum : 100 marks	
	Answer ALL questions.	
2. 3. 4.	List down the characteristics of Big Data Applications.  How can the initial number of clusters for k means algorithm be estimated?  List the categories of clustering methods.	
5.	State the use of Apriori algorithm in data mining.	
6.	List down the types of recommendation system.	
7.	Compute the surprise number (second moment) for the stream 3,1,4,1,3,4,2,1,2.	
	What is the third moment of this Stream?	
8.	Write down the features of graph analytics platform.	
9.	Differentiate SQL and NOSQL.	
10	. What is Sharding?	

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		P	PART B —	(5 × 13 =	65 mark	s)		3	
11.	(a)	(i) Describe in	detail abo	ut 5 V's				(6	)
		(ii) Illustrate Map Reduce with example							)
	(b)	Explain the signi	ificance of I	HDFS an	d its app	lication	s.	(13	)
			Talling			2:1		D 111	
12.	(a)	Summarize the spaces with its es	n-Euclidear (13						
				Or					
	(b)	Explain in detail	about Na		Theorer	n Class	rifier Sm.	oothing one	1
	(0)	Diagnostics.	about Ivai	ve Dayes	Theore	ii, Clas	smer, om	(13)	
13.	(a)	Describe the r	ecommend	ation ex	retame?	Clearly	v evnlair	n the two	
15.	(a)	applications for r				Cicari	y explain	(13)	
				Or					
	AVA	Scenarios.  Transaction I	D Onion	Potato	Burger	Milk	Ghee	(13)	
VVV	V	Transaction I	D Onion	Potato	Burger 1	Milk 0	Ghee 0	(13)	
VVV	V	Transaction I		-		100		(13)	
VVV	V	Transaction I	1	1	1	0	0		
VVV		Transaction I T1 T2 T3 T4	1 0	1	1	0	0		
		Transaction I T1 T2 T3 T4 T5	1 0 0 1 1	1 1 0 1	1 1 0	0 1 1 1 0	0 0 1 0		
		Transaction I T1 T2 T3 T4	1 0 0 1	1 1 0 1	1 1 0	0 1 1 1	0 0 1 0	(13)	
14.	(a)	Transaction I T1 T2 T3 T4 T5	1 0 0 1 1	1 1 0 1 1	1 1 0 0 1 1	0 1 1 1 0	0 0 1 0 1		
14.	(a)	Transaction I T1 T2 T3 T4 T5 T6	1 0 0 1 1	1 1 0 1 1	1 1 0 0 1 1	0 1 1 1 0	0 0 1 0 1		
14.	(a)	Transaction I T1 T2 T3 T4 T5 T6	1 0 0 1 1 1 1	1 1 0 1 1 1	1 0 0 1 1	0 1 1 0 1	0 0 1 0 1 1	nt analysis	
14.	(a)	Transaction I T1 T2 T3 T4 T5 T6  (i) List some c	1 0 0 1 1 1 1	1 1 0 1 1 1	1 0 0 1 1	0 1 1 0 1	0 0 1 0 1 1	nt analysis (6)	
14.	(a) (b)	Transaction I T1 T2 T3 T4 T5 T6  (i) List some c  (ii) What do yo  (i) Explain in	1 0 0 1 1 1 1 1 1 common only u understa	1 1 0 1 1 1 1 time tools nd by ser	1 0 0 1 1 s used to	0 1 1 1 0 1 perform	0 0 1 0 1 1 1 sentime	nt analysis (6)	
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 (a) With Suitable examples differentiate the applications structure, working and usage of different NoSQL Databases. (13)

Or

(b) Describe the system architecture and components of Hive and Hadoop.
(13)

PART C —  $(1 \times 15 = 15 \text{ marks})$ 

16. (a) Explain in detail about hybrid and knowledge based recommendation.

Or

(b) Explain the procedure for installing R in your system. Describe any three packages which support predictive analysis.

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