		CBCS SCHEME	
USN			18CS72
		Seventh Semester B.E. Degree Examination, June/July 2	024
		Big Data Analytics	
Tim	ne. 3	3 hrs. Max	. Marks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each	module.
		Module-1	
1	a.	What is data? How do you classify data as structured, semistructured, multi- unstructured data? Give suitable examples	(10 Marks)
	b.	Define big data. Describe characteristics and types of Big data.	(10 Marks)
		OP -	
2	а	Explain the role of big data in medicine and healthcare system.	(10 Marks)
4	b.	Explain the functions of each of the five layers in big data architecture	design with a
		diagram.	(10 Marks)
		Module-2	
3	a.	Give the purpose of Hadoop, describe the core components and features.	(10 Marks)
	b.	List and explain the HDFS commands.	(IU Marks)
		OR S	
4	a.	Explain in detail about Hadoop MapReduce framework with programming mo	del. (12 Marks)
	b.	Describe Hadoop YARN and Hadoop execution model.	(08 Marks)
		Module-3	
5	a.	What is NOSQL? Explain the characteristics and features of NOSQL.	(08 Marks)
	b.	Explain in detail about NOSQL data architecture pattern.	(12 Marks)
		OR	
6	a.	Explain BASE and CAP theorems in detail.	(10 Marks)
	b.	Explain in detail the MongoDB along with its characteristics.	(10 Marks)
		Module-4	
7	a.	Explain relation algebra operations with an example.	(08 Marks)
	b.	Define Hive. List out characteristics, limitations and explain hive architecture	in detail. (12 Marks)
		OP 1	
8	9	Explain in detail about man-tasks, key value, pair grouping by key.	(10 Marks)
0	b.	Explain the pig architecture in detail.	(10 Marks)
		Madula 5	
0	•	Explain the text mining process architecture and applications.	(10 Marks)
9	a. b.	Explain the 3 types of web mining.	(10 Marks)
10		OR Eventsing the working of simple linear regression along with a real-wo	rld application
10	a.	illustration.	(12 Marks)
	b.	Compare Text Mining and Data Mining.	(08 Marks)
