B.E. (computer) (Sem-VIII) (CBSG5) Paper/Subject Code: 52705/5)Big Data Analytics

Det 0-4/12/19

			(3 Hours) (Total Marks	: 80)
			Please check whether you have got the right question paper.	
N.B.:		1)	Question No. 1 is compulsory.	
		2)	Attempt any THREE from remaining.	
		3)	Assume suitable data if necessary.	
1.	a)	Exp	plain the role of combiner in Hadoop with example.	(05)
	b)	Exp	plain CAP theorem. How is CAP different from ACID property in databases?	(05)
	c)	Exp	plain Cosine distance measure with an example.	(05)
	d)	Jus	tify why analysis of big data is important for organizations.	(05)
2.	a)	De	fine Sampling. Explain various sampling techniques for Big Data.	(10)
	b)	Wł	nat is Clustering? Explain CURE algorithm for Clustering Big Data.	(10)
3.	a)	Wl	nat are the business drivers for NoSQL? Explain in detail any two NoSQL data	(10)
		sto	re with suitable example.	
	b)	Ex	plain the PageRank Algorithm with example.	(10)
4.	a)	Ex	plain Matrix Vector Multiplication using Map Reduce.	(10)
	b)	Ex	plain Park Chem Yu (PCY) algorithm and its disadvantages.	(10)
5.	a)	Ex	plain DGIM Algorithm. Using a stream 10110111010110011100101, and	(10)
	ŕ	k =	= 15, illustrate how the DGIM algorithm will find the number of 1's.	
	b)	Ex	plain the collaborative filtering-based recommendation system in detail.	(10)
6.	Wı	rite s	hort note on (Any Two):	(20)
	a)	Da	ata Stream Management System and its Applications.	
	b)	Cli	ique Percolation Method (CPM) for communities detection.	
	c)	На	doop Ecosystem.	