Paper / Subject Code: 42455 / Big Data Analytics (DLOC - III)

B.E. (EXTC) (Sem-VIL) (CB)

Date-22/11/19

(3 Hours)

[Total Marks: 80]

Instructions:

•	1. Question No.1 is compulsory	
	2. Attempt any Three from the remaining	
	3. Figures to the right indicate full marks	
4	4. Assume suitable data if necessary.	
Q.1.	(a) Compare Big Data Analysis with Traditional Data Mining and warehousing syste	m (5)
	(b) Explain "Shuffle & Sort" phase and "Reducer phase" in Map Reduce.	(5)
	(c) Find Jaccard Distance and Cosine Distance between the following pairs of set $X=(0,1,2,4,5,3)$ & $Y=(5,6,7,9,10,8)$	(5)
	(d) Define Social Networks and Social Network Mining	(5)
Q.2	(a) Explain NoSQL Business drivers and also describe various architecture Patterns of NoSQL.	(10)
	(b) What is the MapReduce? Explain the role of Combiner with the help of an example.	(10)
Q.3	(a) Explain Page Rank algorithm with suitable example	(10)
	(b) Elaborate Collaborative Filtering System. How is the system different from a content based system.	(10)
Q.4	. (a) Explain Park-Chen-Yu algorithm with suitable example.	(10)
	(b) Explain the Physical Architecture of Hadoop. State its Limitations.	(10)
Q.5.	(a) Describe the Characteristics of Big Data with suitable example. State the types	
	of Big data	(10)
	(b)Distinguish the following	(10)
	(i) Document store & Column family data store.	
	(ii) RDBMS & NoSQL database.	
Q.6	. Write Short Note on. (any two)	(20)
	(a)Hadoop Ecosystem	
	(b)Data Sream Management System	
	(c) Matrix Multiplication by MapReduce	
	(d) Network Traffic Analysis.	

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