Paper / Subject Code: 56604 / Elective I: Big Data Analytics

Wednesday, December 11,2019 10:30 am - 01:30 pm 1T00145 - M.C.A. (SEM-V) (Choice Based) (R 2018-19) / 56604 - Elective 1: Big Data Analytics 78136

Time: 3 Hours Total Marks: 80

1) Question No.1 is **compulsory.**

		2) Attempt any three from the remaining five questions.	S VE
		3) Figures to the right indicate full marks	
Q1.		Write short note on	
	(a)	CAP theorem	5
	(b)	HiveQL	5
	(c)	Speculative Execution	5
	(d)	HDFS High availability	5
Q2.	(a)	What is Big Data? What are its various characteristics?	10
	(b)	Explain the Hadoop ecosystem with the diagram. Elaborate any three components of Hadoop Ecosystem?	10
Q3.	(a)	Explain Map Reduce Architecture and elaborate Map task and Reduce task with an example?	10
	(b)	Discuss HBASE architecture.	10
Q4.	(a)	Illustrate with Diagram Hadoop Architecture YARN 2.0 in detail?	10
	(b)	Write down a Map Reduce algorithm for word Count.	10
Q5.	(a)	What is HIVE? Explain HIVE architecture in detail.	10
	(b)	What is Pig? Discuss the Load () & Store() commands in Pig framework.	10
Q6.		Write short notes on any four of the followings	20
		(a) Row oriented vs. column oriented storage	
		(b) Recordreader in Hadoop Mapreduce	
	ST (1) (5) (5)	(c) Name Node vs Data Node	
	9000	(d) 5 HDFS Commands	
		(e) Key-value databases	
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