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

		Time: 3 Hours	Total Marks: 80
N.B.	:1) Qu	nestion No.1 is compulsory.	
	2) Att	tempt any three from the remaining five questions.	
	3) Fig	gures to the right indicate full marks	
Q1.	(a)	Explain the requirements of NoSQL databases.	5
	(b)	Explain the industry applications of Big Data.	5
	(c)	Compare MapReduce and Yarn.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	(d)	Explain the 3 Vs of Big data.	50000
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Q2.	(a)	Illustrate the main components of HDFS with the diagram. Whis the task of Secondary NameNode in HDFS?	at 10
	(b)	Compare HBASE with conventional RDBMS.	10
Q3.	(a)	Explain the Hadoop ecosystem with the diagram. What is the difference between Flume & Sqoop?	10
	(b)	What is Pig? Discuss the Load() & Store() commands in Pig framework.	10
Q4.	(a)	List the types of NoSQL databases with an example of each.	10
	(b)	Enunciate the Word count algorithm using MapReduce.	10
Q5.	(a)	Explain how Map task & Reduce task work in MapReduce.	10
	(b)	What is HIVE? Explain HIVE architecture in detail.	10
Q6.		Write short notes on any four_of the followings	20
	F 10 25	(a) HBASE data models	
		(b) Relational operators in MapReduce	
		(c) Functions of JobTracker & TaskTracker	
	25 65	(d) HDFS Commands	
		(e) Pig Latin	
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