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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FOURTH SEMESTER REGULAR AND SECOND SEMESTER SECOND YEAR DIRECT MCA DEGREE EXAMINATION(R&S), MAY 2019

Course Code: RLMCA204 Course Name: BIG DATA TECHNOLOGIES				
Max.	Duration: 3 Hours			
	PART A Answer all questions, each carries 3 marks.	Marks		
1	Illustrate any three layers of Big Data stack.	(3)		
2	Discuss the role of NoSQL database in big data storage.	(3)		
3	Write short notes on Brewer's theorem.	(3)		
4	Explain the architecture of Hive in Hadoop ecosystem.	(3)		
5	How map and reduce function is acting inside map reduce framework	. (3)		
6	Distinguish NewSQL database from NoSQL.	(3)		
7	List out the appropriate conditions for using IMDG storage devices.	(3)		
8	Differentiate Quantitative and Qualitative analysis.	(3)		
	PART B Each question carries 6 marks.			
Module I				
9	Illustrate the computing technologies used for handling big data.	(6)		
	OR			
10	List out and explain the features of cloud computing.	(6)		
	Module II			
11	Explain big data processing method in real time mode.	(6)		
	OR			
12	Write short notes on the following.	(6)		
	i) Sharding			
	ii) Replication			
Module III				
13	Illustrate and explain HBase architecture.	(6)		

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	OR	
14	Explain how Hadoop Yarn improves high availability and scalability of	(6)
	Hadoop computing cluster.	
	Module IV	
15	Explain working of MapReduce framework with an example.	(6)
	OR	
16	Explain the techniques for optimizing MapReduce job.	(6)
	$Module\ V$	
17	Discuss the various approaches used by IMDG to improve read/write performance.	(6)
	OR	
18	Write short notes on	(6)
	i)RDBMS	
	ii)NoSQL	
	iii)NewSQL	
	Module VI	
19	Explain statistical analysis and its types.	(6)
	OR	
20	Describe various visual analysis techniques used for data analysis.	(6)
