4/12/2024 MCA SEM-III C SCHEME BIG DATA ANALYTICS & VISUALIZATION QP CODE: 10068667

(3 Hours) [Total Marks : 80]

N.B.:

- 1) Question No.1 is **compulsory.**
- 2) Attempt any three from the remaining five questions

Q1		Write short notes on following (any four):	
	[a]	Explain the industry applications of Big Data.	[05]
	[b]	Discuss the use of Pig Latin.	[05]
	[c]	How is HBase helpful in Hadoop ecosystem?	[05]
	[d]	Explain the benefits of Apache Kafka	[05]
	[e]	Tableau as Big Data Visualization tool	[05]
	[f]	Spark DAG	[05]
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Q2	[a]	Write short note on Mapper Task and Reducer Task	[10]
	[b]	ExplainHDFSArchitectureindetail.	[10]
Q3	[a]	Explain matrix multiplication mapper and reducer function for MapReduce	[10]
		with a help of a suitable example.	
	[b]	Explain the architecture of Apache Hive in Hadoop Ecosystem. List out	[10]
		various HiveQL builtin functions.	
Q4	[a]	Describe the main components and the working of Apache Pig. Discuss the	[10]
		Load()&Store() commands in Pig framework	
	[b]	Discus HBASE data models used in Hadoop for Big Data Analytics.	[10]
Q5	[a]	What is RDD? How is data partitioned in RDD?	[10]
	[b]	Explore the process of visualizing data using Data Driven Documents.	[10]
Q6	[a]	Discuss various challenges and approaches to big data visualization	[10]
	[b].	What is BigData and its types? List out the difference between Traditional	[10]
		Data Vs. Big Data with the help of example?	
