

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM
(AUTONOMOUS)**

III B.Tech II Semester Regular/Supplementary Examinations, April - 2024

**BIG DATA ANALYTICS
(Common to CSE(DS) and IT)**

Time: 3 hours

Max. Marks: 70 M

**Answer ONE Question from each Unit
All Questions Carry Equal Marks**

Q. No.	Questions	BTL	CO	Marks
UNIT – I				
1.	a) What is big data analytics? Explain different types of big data analytics.	K2	CO1	7M
	b) Define Big Data. Explain the characteristics of with Big Data	K2	CO1	7M
OR				
2.	a) Illustrate the challenges with Big Data.	K2	CO1	7M
	b) Differentiate between SQL and NoSQL.	K2	CO1	7M
UNIT – II				
3.	a) What is CQL? and explain its data types.	K2	CO2	7M
	b) Explain different CQLSH commands in detail.	K2	CO2	7M
OR				
4.	a) List out CQL Data Definition Commands and explain them through proper examples.	K2	CO2	7M
	b) List out and explain various Cassandra CRUD operations.	K2	CO2	7M
UNIT – III				
5.	a) Explain the HDFS Architecture using a block diagram.	K2	CO3	7M
	b) Illustrate a simple example of the working of MapReduce.	K3	CO3	7M
OR				
6.	a) Explain in detail about the Hadoop YARN Architecture.	K2	CO3	7M
	b) Explain the working of MapReduce through a simple example.	K2	CO3	7M
UNIT – IV				
7.	a) Explain how Spark runs applications with the help of its architecture.	K2	CO4	7M
	b) List out and explain the features of an RDD in Spark.	K2	CO4	7M
OR				
8.	a) How is Spark used for big data analytics? Explain.	K2	CO4	7M
	b) What are the advantages and limitations of RDDs? Explain.	K2	CO4	7M
UNIT – V				
9.	a) Distinguish between the HDFS and HBase.	K4	CO5	7M
	b) Distinguish between the Pig and Hive.	K2	CO5	7M
OR				
10.	a) Explain how to connect with MongoDB step by step.	K2	CO5	7M
	b) Distinguish between the Data Warehouse and Data Lake.	K4	CO5	7M