CBCS SCHEME

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BAD/BDS601

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2026
Big Data Analytics

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	**a.**	Explain the classification of data in detail.	**10**	**L2**	**CO1**
	b.	What is Big Data? Explain the characteristics of Big Data.	**4**	**L2**	**CO1**
	c.	Discuss the evolution of Big Data.	**6**	**L2**	**CO1**
		OR			
Q.2	**a.**	What is Big Data Analytics? Explain the classification of Analytics.	**10**	**L2**	**CO1**
	b.	Define NoSQL. Explain the types of NoSQL.	**5**	**L1**	**CO1**
	c.	Explain the advantages of NoSQL.	**5**	**L2**	**CO1**
		Module – 2			
Q.3	**a.**	Explain Hadoop Distributed File System.	**10**	**L2**	**CO2**
	b.	Compare RDBMS and Hadoop.	**5**	**L2**	**CO2**
	c.	Explain High Level Architecture of Hadoop.	**5**	**L2**	**CO2**
		OR			
Q.4	**a.**	Describe the chores of Mapper, Combiner, Partitioner and Reducer for the word count problem.	**10**	**L2**	**CO2**
	b.	Develop MapReduce program for matrix multiplication.	**10**	**L3**	**CO2**

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Module – 3					
Q.5	**a.**	What is MongoDB? Explain the features of MongoDB.	**10**	**L3**	**CO3**
	b.	Explain how CRUD operations are performed with an example in MongoDB.	**10**	**L2**	**CO3**
OR					
Q.6	**a.**	Explain count( ), limit( ), sort( ), Aggregate( ) and MapReduce( ) functions with an example in MongoDB.	**10**	**L2**	**CO3**
	b.	Explain how Arrays are used in MangoDB with proper example.	**10**	**L2**	**CO3**
Module – 4					
Q.7	**a.**	What is Hive? Explain the features and data units of Hive.	**7**	**L2**	**CO4**
	b.	Explain the Hive architecture with neat diagram.	**8**	**L2**	**CO4**
	c.	Explain DDL and DML in Hive.	**5**	**L2**	**CO4**
OR					
Q.8	**a.**	What is Pig? Explain the features of Pig.	**5**	**L2**	**CO4**
	b.	Discuss Relational operators in Pig with proper example.	**10**	**L2**	**CO4**
	c.	Explain evaluation functions with proper example.	**5**	**L2**	**CO4**
Module – 5					
Q.9	**a.**	What is Spark? Explain Five layer architecture for running applications using spark.	**10**	**L2**	**CO5**
	b.	What is Data Analysis? Explain the steps in data analysis with spark neat diagram.	**10**	**L2**	**CO5**
OR					
Q.10	**a.**	Explain with block diagram and Text Mining Process and explain its phases.	**10**	**L2**	**CO5**
	b.	What is Web Mining? Explain the process of web usage mining with neat diagram.	**10**	**L2**	**CO5**

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