EPCET LIBRARY BANGALORE-49

CBCS SCHEME

USN | | | | | | | | | | |

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

		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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