

CBCS SCHEME

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BAD601/BDS601

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025

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 classification of Big Data with a diagram.	10	L2	CO1
	b.	Define Big Data explain its characteristics and challenges.	10	L1	CO1
OR					
Q.2	a.	What is NoSQL? Explain different types of NoSQL database with an example.	10	L1	CO1
	b.	Explain shared nothing architecture, CAP theorem and list its advantages.	10	L2	CO1
Module – 2					
Q.3	a.	Differentiate between. i. RDBMS and Hadoop ii. Mapper and Reducer	10	L2	CO2
	b.	Identify and explain key aspects and components of Hadoop.	10	L3	CO2
OR					
Q.4	a.	Explain Hadoop distributed File System (HDFS) with a diagram.	10	L2	CO2
	b.	Identify and explain different phase of map task and reduce task for the word count problem.	10	L3	CO2
Module – 3					
Q.5	a.	What is CRUD operation in Mongo DB? Explain the following commands. i. Insert method ii. Update on array iii. Save method	10	L1	CO3
	b.	Determine and explain the characteristics of Mongo DB.	10	L3	CO3
OR					
Q.6	a.	Write short notes on. i. Aggregate function ii. Map reduce function in Mongo DB	10	L2	CO2
	b.	Determine and explain creation of database, dropping of database and datatypes of Mongo DB.	10	L3	CO2
Module – 4					
Q.7	a.	Define Hive. Explain its main task and features.	10	L1	CO4
	b.	Analyze Hive architecture with its diagram.	10	L4	CO4
OR					
Q.8	a.	Define Pig. Explain its feature, anatomy and philosophy.	10	L1	CO4
	b.	Examine identifiers, keywords, data types and operators of Pig with an example.	10	L4	CO4
Module – 5					
Q.9	a.	Analyze spark SQL and Pandas for data analysis.	10	L4	CO4
	b.	Determine and explain component, features of spark architecture.	10	L3	CO5
OR					
Q.10	a.	Analyze different phase of text mining process with a diagram.	10	L4	CO5
	b.	Identify and explain preprocessing steps, mining task for web content.	10	L3	CO5

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