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Seventh Semester B.E./B.Tech. Degree Examination, June/July 2026

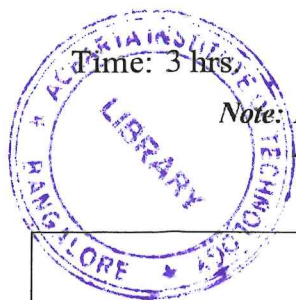
BIG Data Analytics

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.	What is Big Data? With a diagram, explain the classification and characteristics of big data.	10	L2	CO1
	b.	What is Big Data Analytics? With a neat diagram explain classification of analytics.	10	L2	CO1
OR					
Q.2	a.	With a neat diagram, explain Hadoop environment.	10	L2	CO2
	b.	Write a note on NOSQL	10	L3	CO2
Module – 2					
Q.3	a.	Write the differences between RDBMS and Hadoop by considering atleast five parameters.	10	L3	CO2
	b.	With a neat diagram, explain high level architecture of Hadoop.	10	L2	CO2
OR					
Q.4	a.	With a neat diagram explain Hadoop distributed file system architecture.	10	L2	CO3
	b.	With a block diagram explain map reduce framework.	10	L2	CO3
Module – 3					
Q.5	a.	What is MongoDB? With respect to MongoDB explain the following : i) Sharding ii) Replication iii) Create and drop database.	10	L2	CO3
	b.	Explain different data types used in MongoDB.	10	L2	CO3
OR					
Q.6	a.	Write a note on MongoDB Query language.	10	L3	CO3
	b.	Write difference between RDBMS and MongoDB.	10	L3	CO3

Module – 4

Q.7	a.	What is Hive? With a neat diagram explain the architecture of Hive.	10	L2	CO3
	b.	Explain different types of commands used for Query language.	10	L2	CO3

OR

Q.8	a.	What is Apache Pig? Explain the features and anatomy of using Apache Pig.	10	L2	CO3
	b.	List and explain Eval functions provided by Apache Pig.	10	L2	CO3

Module – 5

Q.9	a.	What is Spark? With neat diagram explain main components of the spark architecture and features of spark.	10	L2	CO3
	b.	Write spark SQL features and also explain connectivity between applications and spark SQL.	10	L3	CO3

OR

Q.10	a.	Define Text mining. Explain phases of text mining.	10	L1	CO4
	b.	Explain common web content mining techniques.	10	L2	CO4
