

Code No: **R22A0517****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech II Semester Regular Examinations, April 2025****Big Data Analytics****(CSE, CSE-AIML & B.Tech-AIML)**

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Time: 3 hours**Max. Marks: 60****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 10 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

<u>PART-A (10 Marks)</u>			BCLL	CO(s)	Marks
<u>(Write all answers of this part at one place)</u>					
1	A	Define business intelligence.	L1	CO-I	[1M]
	B	Why do we need big data?	L1	CO-I	[1M]
	C	Define RDBMS.	L1	CO-II	[1M]
	D	What is Hadoop 2?	L1	CO-II	[1M]
	E	Define MapReduce.	L1	CO-III	[1M]
	F	List the applications of NoSQL.	L3	CO-III	[1M]
	G	Define Key space.	L1	CO-IV	[1M]
	H	What is Mongo Export?	L1	CO-IV	[1M]
	I	Outline Apache spark?	L2	CO-V	[1M]
	J	Define Map side join.	L1	CO-V	[1M]
<u>PART-B (50 Marks)</u>					
<u>SECTION-I</u>					
2	A	List and explain Characteristics of Big data.	L2	CO-I	[5M]
	B	Discuss about Business Intelligence in Big Data.	L6	CO-I	[5M]
OR					
3	A	Discuss about Big Data Evolution in detail.	L6	CO-I	[5M]
	B	Explain the following in detail.	L2	CO-I	[5M]
		a) Unstructured data			
		b) Semi-structured data			
		c) Structured data			
<u>SECTION-II</u>					
4	A	Compare and contrast Hadoop 1 and Hadoop 2.	L4	CO-II	[5M]
	B	Illustrate Design principles of Hadoop in detail.	L2	CO-II	[5M]
OR					
5	A	Explain Hadoop 1 in detail.	L2	CO-II	[5M]
	B	Compare Hadoop with SQL.	L4	CO-II	[5M]
<u>SECTION-III</u>					
6	A	Illustrate Processing data with Hadoop using MapReduce.	L2	CO-III	[5M]

	B	Explain YARN Architecture with a neat sketch.	L5	CO-III	[5M]
		OR			
7	A	What are the Features of NoSQL? Explain.	L2	CO-III	[5M]
	B	How to Manage the Resources with Hadoop YARN? Explain.	L2	CO-III	[5M]
		<u>SECTION-IV</u>			
8	A	Compare and Contrast SQL, NoSQL and NewSQL.	L4	CO-IV	[5M]
	B	Write short notes on Mongo DB Query language.	L1	CO-IV	[5M]
		OR			
9	A	Explain CRUD operations in MongoDB with an examples.	L5	CO-IV	[5M]
	B	Explain CRUD operations in Cassandra with an examples.	L5	CO-IV	[5M]
		<u>SECTION-V</u>			
10	A	Illustrate MapReduce Programming.	L2	CO-V	[5M]
	B	Discuss about Apache spark in detail.	L6	CO-V	[5M]
		OR			
11	A	Explain Create RDD spark Operations.	L5	CO-V	[5M]
	B	Illustrate Apache Spark Framework Architecture with a neat sketch.	L2	CO-V	[5M]
