

Code No: R20A0519

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**III B.Tech II Semester Supplementary Examinations, April 2025****Big Data Analytics****(B.Tech-AIDS)**

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**Time: 3 hours****Max. Marks: 70**

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each **SECTION** and each Question carries 14 marks.

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**SECTION-I**

			BCLL	CO(s)	Marks
1	A	Discuss about : i) Structed data ii) Unstructured data iii) Semi-structed data	L1	CO-I	[6M]
	B	Explain about Big Data Evolution and challenges of Big Data	L2	CO-I	[8M]

**OR**

2	A	Write the challenges, advantages and disadvantages of big data	L1	CO-I	[7M]
	B	How do you extract the data from datasets vs bigdata. Brief about datasets used in BDA.	L1	CO-I	[7M]

**SECTION-II**

3	A	Discuss about Requirement of Hadoop Framework, mention the examples.	L2	CO-II	[7M]
	B	Compare and contrast between Hadoop 1 vs Hadoop 2.	L3	CO-II	[7M]

**OR**

4	A	Explain about Processing data with Hadoop using MapReduce.	L2	CO-II	[7M]
	B	Brief in detail about Managing Resources and Applications with Hadoop YARN.	L2	CO-II	[7M]

**SECTION-III**

5	A	Write the Advantages & Disadvantages and Applications of NoSQL.	L1	CO-III	[7M]
	B	Explain about various datatypes supported by MangoDB with examples.	L4	CO-III	[7M]

**OR**

6	A	Compare and contrast between SQL, NoSQL and NewSQL with suitable examples.	L3	CO-III	[9M]
	B	Discuss about features and operations of Cassandra.	L2	CO-III	[5M]

**SECTION-IV**

7	A	Explain about purpose, usage and applications of Hadoop framework.	L4	CO-IV	[7M]
	B	Differentiate between Mapsidejoin and Reducesidejoin and mention the examples.	L3	CO-IV	[7M]

**OR**

8	A	Write the purpose of Map Reduce programming and brief about I/O formats in it.	L2	CO-IV	[7M]
	B	State and explain the purpose of Apache spark with	L4	CO-IV	[7M]

advantages.

**SECTION-V**

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|-----------|-----------------|--|-----------|-------------|-------------|
| <b>9</b>  | <b><i>A</i></b> | Write the applications of ML in data analytics.                    | <b>L1</b> | <b>CO-V</b> | <b>[6M]</b> |
|           | <b><i>B</i></b> | Explain about Linear Regression with suitable example.             | <b>L4</b> | <b>CO-V</b> | <b>[8M]</b> |
| <b>OR</b> |                 |  |           |             |             |
| <b>10</b> | <b><i>A</i></b> | Differentiate between Classification and Clustering with examples. | <b>L3</b> | <b>CO-V</b> | <b>[7M]</b> |
|           | <b><i>B</i></b> | Explain about the Key Roles of Machine Learning in Data Analytics. | <b>L2</b> | <b>CO-V</b> | <b>[7M]</b> |

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