SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech. IV Year I Semester Regular & Supplementary Examinations December-2024
BIG DATA
CSE (Artificial Intelligence and Machine Learning)

Time: 3 Hours   **Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	Discuss in detail about Apache Hadoop and History of Hadoop?	CO1	L2	6M
	b	Examine the different types of digital data with examples?	CO1	L4	6M

OR

2	a	List out the challenges faced by big data.	CO1	L1	6M
	b	Examine the Significance of big data analytics.	CO1	L3	6M

UNIT-II

3	a	Describe the dataflow process in Hadoop Distributed file System.	CO2	L3	6M
	b	Analyze the features of Apache Hadoop.	CO2	L4	6M

OR

4	a	Describe the AVRO file format with diagram.	CO2	L3	6M
	b	Discuss about the data ingest operation using Sqoop and Flume.	CO2	L2	6M

UNIT-III

5	a	Explain in detail about Hadoop YARN Architecture.	CO3	L2	6M
	b	Discuss different types of failures in Classic MapReduce.	CO3	L2	6M

OR

6	a	Identify the Significance of YARN over MapReduce.	CO3	L3	6M
	b	Summarize Task Execution Environment Properties.	CO3	L2	6M

UNIT-IV

7	a	Compare the PIG with Databases with an Example.	CO4	L5	6M
	b	Find the Grouping and Joining Data in Pig Latin.	CO4	L3	6M

OR

8	a	Explain about the data types in Pig Latin.	CO4	L2	6M
	b	Evaluate Data Processing Operators in Pig Latin.	CO4	L5	6M

UNIT-V

9	a	Illustrate Hive table with example.	CO5	L3	6M
	b	Draw a neat sketch of Hive architecture.	CO5	L3	6M

OR

10	a	Examine the Characteristics of HBase.	CO5	L4	6M
	b	Appraise about Hive query language.	CO5	L3	6M

*** END ***

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