SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year II Semester Regular &Supplementary Examinations June-2025
BIG DATA ANALYTICS
CSE(Artificial Intelligence & DataScience)

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	L4	6M
	b	Distinguish between structure, unstructured and semi-structure data with an examples.	CO1	L2	6M

OR

2	Examine the different types of digital data with examples.	CO1	L3	12M

UNIT-II

3	a	What is an interface? Establish the Hadoop system interfaces.	CO2	L3	6M
	b	Discuss about the data ingest operation using Sqoop and Flume.	CO2	L2	6M

OR

4	Explain the block, name node and data node in Hadoop file system.	CO2	L3	12M

UNIT-III

5	List out the different types of failures in Yet Another Resource Negotiator.	CO3	L3	12M

OR

6	a	Discuss about Speculative Execution and its Properties.	CO3	L4	6M
	b	Discuss different types of failures in Classic MapReduce.	CO3	L3	6M

UNIT-IV

7	What is Pig? How to Install and execute PIG on Hadoop Cluster.	CO4	L4	12M

OR

8	a	Compare the PIG with Databases with an Example.	CO4	L3	6M
	b	Explain about the data types in Pig Latin.	CO4	L2	6M

UNIT-V

9	a	Differentiate Hbase over RDBMS.	CO5	L4	6M
	b	Explain with a neat diagram the architecture of Hbase.	CO5	L3	6M

OR

10	Discuss about Hive shell command line interface.	CO5	L2	12M

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