SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech IV Year I Semester Regular Examinations February-2024
BIG DATA
(Common to CSM & CSE)

Time: 3 Hours   Max. Marks: 60

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

UNIT-I

1	a	Examine the different types of digital data with examples.	CO1	L4	6M
	b	Summarize Big Data in terms of three dimensions, volume, variety and Velocity.	CO1	L2	6M

OR

2	a	What is big data analytics? Identify the Classification of Analytics.	CO1	L3	6M
	b	Illustrate in detail about Hadoop streaming.	CO1	L2	6M

UNIT-II

3		What are the advantages of Hadoop? Explain Hadoop Architecture and itsComponents with neat diagram.	CO2	L1	12M

OR

4	a	Discuss about the data ingest operation using Sqoop and Flume.	CO2	L2	6M
	b	Differentiate the compression and serialization operation in Hadoop I/O.	CO2	L4	6M

UNIT-III

5		Sketch neatly and Explain MapReduce Architecture in detail.	CO3	L3	12M

OR

6	a	Summarize Task Execution Environment Properties	CO4	L2	6M
	b	Discuss about Speculative Execution and its Properties.	CO4	L2	6M

UNIT-IV

7	a	Compare the PIG with Databases with an Example.	CO3	L5	6M
	b	Evaluate the Expressions and types in Pig Latin.	CO4	L4	6M

OR

8		Develop Pig Latin Schemas and Functions.	CO5	L3	12M

UNIT-V

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

OR

10	a	Explain about IBM Big SQL.	CO6	L2	6M
	b	Assess how HBase is implemented at Streamy.com	CO6	L4	6M

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