O.P.Code: 20CS1214

10 a Explain about IBM Big SQL.

**b** Assess how HBase is implemented at Streamy.com.

**R20** 

H.T.No.

Max. Marks: 60

## SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. IV Year I Semester Regular & Supplementary Examinations October/November-2025 BIG DATA ESSENTIALS

(Common to CAI & CCC)

Time: 3 Hours

(Answer all Five Units  $5 \times 12 = 60$  Marks)

UNIT-I

			UNIT-I			×	
· 1	1	a	Examine the different types of digital data with examples.	CO1	L4	<b>6M</b>	×
		ь	Summarize Big Data in terms of three dimensions, volume, variety and	CO1	L2	<b>6M</b>	
			velocity.				
			OR	10			
2	2		Discuss about the Analysis of data through Unix tools and Hadoop.	CO1	L2	12M	ŭ
			UNIT-II				
	3		What are the advantages of Hadoop? Explain Hadoop Architecture and	CO2	L1	12M	
			its Components with neat diagram.			2 25	
			OR				
	4		Elaborate the AVRO file format with diagram.	CO2	L6	<b>12M</b>	
			UNIT-III				
	5		Sketch neatly and Explain MapReduce Architecture in detail.	CO3	L3	12M	
			OR				
1	6		Discriminate the below features in MapReduce.	<b>CO3</b>	L4	12M	
		10	i) Counters ii) Sorting iii) Joins	- 8	3		3
			UNIT-IV				
	7		What is Pig? How to Install and execute PIG on Hadoop Cluster.	CO4	<b>L2</b>	12M	ng:
			OR -				
	8		Develop Pig Latin Schemas and Functions.	CO4	L3	12M	
			UNIT-V				
×	9		Illustrate Hive table with example.	CO5	L3	12M	
			OR				

CO<sub>5</sub>

CO<sub>5</sub>

L3

**L4** 

**6M** 

**6M**