O.P.Code: 20CS0538

R20

H.T.No.

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

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

	BIG DATA			
	CSE(Artificial Intelligence and Machine Learning)			
Ti	me: 3 Hours	Max.	Mar	ks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)		25	
	UNIT-I			č
1	a Define big data analytics. Explain about the Classification of Analytics.	CO ₁	L2	6M
	b Illustrate how does big data analytics work.	CO ₁	L3	6M
	OR			9
2	a Explain in detail about Infosphere Big Insights with its key features	CO ₁	L3	6M
	b Discuss in detail about Big sheets with its key features.	CO ₁	L2	6M
	UNIT-II			
3	a Discuss in detail about HDFS concepts.	CO ₂	L2	6M
	b Describe the dataflow process in Hadoop Distributed file System.	CO ₂	L3	6M
	OR			
4	a What is Hadoop Archives and explain how to create and lookup files in archives.	CO2	L2	6M
	b Differentiate the compression and serialization operation in Hadoop I/O. UNIT-III	CO2	L4	6M
5	Describe the types of schedulers in Hadoop with their merits and demerits.	CO3	L2	12M
	OR			
6	a Analyze the different types of InputFormat in MapReduce.	CO3	L2	6M
	b List the features and use cases for mapreduce.	CO3	L3	6M
	UNIT-IV	000		OIVI
-7	Explain the different execution modes available in Pig along with its	CO4	т 2	1034
•	execution mechanisms.	CO4	L2	12M
	OR			
8	a What are the differences types of construction operators available in Pig	CO4	т э	-43 AT
0	Latin.	CO4	L2	4M
	b Discuss the Pig Latin relational operations with example.	CO4	т э	03/4
	UNIT-V	CO4	L3	8M
9		605	T 4	103.5
,	What is Hive? Illustrate step-by-step job execution flow in Hive with Hadoop with neat diagram.	COS	L4	12M
10	OR Evaluin IBM Big SOI, with its features along with its modeling in the	00=	τ .	9
10	Explain IBM Big SQL with its features along with its working in the Hadoop Ecosystem.	CO5	L3	12M
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