

Course Code: 23CSE1D01
BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY &
SCIENCE(AUTONOMOUS)

I - M. Tech I-Semester Supplementary Examinations (BR23), February - 2026

BIG DATA ANALYTICS
(COMPUTER SCIENCE & ENGINEERING -58)

Time: 3 hours

Max. Marks: 75

Answer any Five Questions One Question for One UNIT
ALL the Question Carry Equal Marks

	UNIT-I	Marks	CO	BL
1.a)	Define Big Data. Give the various Industry examples of Big Data.	7 M	CO1	L1
b)	Explain about Fraud and Big Data with an example.	8 M	CO1	L2
	OR			
2.a)	Explain in detail about Big Data Technologies with examples.	7 M	CO1	L2
b)	Explain about Open-Source Technologies with examples.	8 M	CO1	L2
	UNIT-II	Marks	CO	BL
3.a)	Define NoSQL. Explain about various Aggregate Data Models.	7 M	CO2	L1
b)	Explain how Graph Databases are used in Big Data with example.	8 M	CO2	L2
	OR			
4.a)	Explain the concept of Relaxing Consistency with examples.	7 M	CO2	L2
b)	Explain the concept of Peer – to – Peer replication with examples.	8 M	CO2	L3
	UNIT-III	Marks	CO	BL
5.a)	Explain about Fault Tolerance with data replication.	7 M	CO3	L2
b)	Explain with a neat diagram about Map Reduce Architecture.	8 M	CO3	L2
	OR			
6.a)	Explain about HiveQL data definition.	7 M	CO3	L2
b)	Explain about HiveQL data manipulation.	8 M	CO3	L3
	UNIT-IV	Marks	CO	BL
7.a)	Explain about Transformations.	7 M	CO4	L3
b)	Explain about DAG.	8 M	CO4	L2
	OR			
8.a)	Explain about Apache Spark and how it is better than Hadoop.	8 M	CO4	L2
b)	Explain about RDD.	7 M	CO4	L2
	UNIT-V	Marks	CO	BL
9.a)	Explain about State Full Processing.	7 M	CO5	L2
b)	Explain about Dropping Duplicates in a Stream.	8 M	CO5	L3
	OR			
10.a)	Explain about Handling Late Data with Watermarks.	7 M	CO5	L2
b)	Explain about Structured Streaming in Action.	8 M	CO5	L2
