

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: MTECH
BRANCH: Cognizant**

**SEMESTER : IV
SESSION : SP/2023**

SUBJECT: CS634 BIG DATA ANALYTICS

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	Draw and explain Data Analytics Life Cycle.	[5] 1	4
Q.1(b)	Discuss different types of Big Data Technology.	[5] 1	2
Q.2(a)	Illustrate Document data model and its working.	[5] 2	3
Q.2(b)	Describe replication and sharding and also compare them.	[5] 3	4
Q.3(a)	Define HDFS. Describe namenode, datanode and block.	[5] 3	1
Q.3(b)	Explain how map reduce jobs run on YARN.	[5] 4	2
Q.4(a)	Describe different types of failures in Classic MapReduce.	[5] 2	2
Q.4(b)	What is Fair Scheduler? How is different from Capacity Scheduler?	[5] 5	1
Q.5(a)	Explain Storage Mechanism in HBase.	[5] 4	2
Q.5(b)	Describe the Data model of Cassandra.	[5] 3	2

:::25/04/2023 E:::