R20 Regulation *Subject code: 3E7EA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, October 2026

BIG DATA ANALYTICS

(CSE)

Maximum Marks: 70 Date: 04.11.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	What is Analytics?	2M	1	L1
2	Explain about HDP.	2M	1	L1
3	What is CAP?	2M	2	L1
4	List the components of Document Databases.	2M	2	L1
5	What are the components of Kafka?	2M	3	L1
6	What are the characteristics of HDFS?	2M	3	L1
7	Describe Tools and Frame Works of Batch Processing.	2M	4	L1
8	What is Apache Spark?	2M	4	L1
9	What is Relational Database?	2M	5	L1
10	Explain Cassandra Data Model.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Describe Four types of Analytics and various analytical approaches. typically associated with Big Data.	10M	1	L2
	OR			
12	a) What is interactive Querying in Big Data Stack? b) Explain various Frameworks which allow analysis of data in Batches.	5M 5M	1	L2
13	List out the components and explain NoSQL Databases.	10M	2	L2
	OR			
14	a) List the components of data model which used in HBase. b) Briefly explain about the Column family database.	5M 5M	2	L2
15	a) What is importing data with Sqoop? b) Describe the Amazon Kinesis.	5M 5M	3	L2
	OR			

16	Discuss various Custom connectors.	10M	3	L2
17	What are the main components of Hadoop? Illustrate.	10M	4	L2
	OR			
18	Distinguish between Apache Oozie and Apache Spark.	10M	4	L2
19	Distinguish between SQL and NoSQL.	10M	5	L2
	OR			
20	Explain about Python Web Application Frame work.	10M	5	L2