



R20 Regulation

Subject code: 3E7EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

BIG DATA ANALYTICS

(CSE)

Maximum Marks: 70

Date: 03.12.2025

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	Write about HDP.	2M	1	L1
3	What is CAP?	2M	2	L1
4	Explain Column Family data base.	2M	2	L1
5	What are the tools of Data Acquisition?	2M	3	L1
6	What is the Data Node in HDFS Architecture?	2M	3	L1
7	Write 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	Explain briefly about 5v's of Big Data.	10M	1	L2
OR				
12	A) Explain the analytical patterns by using ALPHA pattern. B) What are the key frameworks in HDP stack?	5M 5M	1	L2
13	List out the components of 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	List out the frameworks of data acquisition considerations.	10M	3	L2

17	What are the main components of Hadoop? Illustrate.	10M	4	L2
	OR			
18	Explain briefly about Case study: Batch Analysis of New Articles.	10M	4	L2
19	Distinguish between SQL and NoSQL.	10M	5	L2
	OR			
20	Design Amazon Dynamo DB for a reference application that retrieves and stores weather data for different cities.	10M	5	L2