



R20 Regulation

Subject code:3P7HA

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(DS))

Maximum Marks: 70

Date: 01.12.2025

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	What is Bigdata Stack?	2M	1	L1
3	What is CAP?	2M	2	L1
4	What is sharding?	2M	2	L1
5	What is the functionality of big data collection System?	2M	3	L1
6	What is 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	Define Entity Integrity Constraint?	2M	5	L1
10	What is Defining a View in Django?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain briefly about 5v's of Big Data? With suitable examples	10M	1	L2
OR				
12	a) Write any two Domain Specific examples of Big Data? b) Describe About the analytics flow for Big Data.	10M 5M	1	L2
13	What are the various components and design styles of Analytics architecture?	10M	2	L2
OR				
14	a) What are the three layers of Lambda Architecture? b) Explain the HBase table Structure in NoSQL.	10M 5M	2	L2
15	Explain about the publish-subscribe messaging frameworks.	10M	3	L2
OR				
16	List out the frameworks of data acquisition considerations.	10M	3	L2

17	Define Hadoop and Map reduce and Explain about Hadoop and Map reduce examples.	10M	4	L2
OR				
18	Explain briefly about Case study: Batch Analysis of New Articles.	10M	4	L2
19	a) Write the advantages and disadvantages of NoSQL? b) Write the Pros and Cons of relational database?	10M 5M	5	L2
OR				
20	Design Amazon Dynamo DB for a reference application that retrieves and stores weather data for different cities?	10M	5	L2