R20 Regulation *Subject code: 3E7EA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

BIG DATA ANALYTICS

(CSE)

Maximum Marks: 70 Date: 15.05.2026 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	Define Analytics.	2M	1	L1
2	Write about HDP.	2M	1	L1
3	What is Graph data base?	2M	2	L1
4	List the components of Document Databases.	2M	2	L1
5	Write two publish subscribe messaging frame works.	2M	3	L1
6	What is Name Node in HDFS Architecture?	2M	3	L1
7	What is Hadoop and Map Reduce?	2M	4	L1
8	What is Apache Oozie?	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	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	Explain the components of NoSQL Databases in detail.	10M	2	L2
	OR			
14	A) Explain the Big data analytics Architecture. B) Explain data flow in Map reduce patterns.	5M 5M	2	L2
15	Write in detail about Big data collection systems and messaging queue.	10M	3	L2
	OR			

16	List out the frameworks of data acquisition considerations.	10M	3	L2
17	A) List out the components of Spark cluster. B) What is the workflow of Oozie in Data Analysis?	5M 5M	4	L2
	OR			
18	What are the major components of pig? Illustrate.	10M	4	L2
19	Draw an Django architecture adopts a Model-Template-View (MTV).	10M	5	L2
	OR			
20	A) Write the Pros and Cons of relational database. B) Explain about Entity-relationship(ER) diagram for the reference application.	5M 5M	5	L2