



R20 Regulation

Subject code: 3E7EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)
B.Tech VII Semester Supplementary Examinations, April 2024
BIG DATA ANALYTICS
(Computer Science and Engineering)

Maximum Marks: 70

Date: 25.04.2024 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)

- 1 What are Analytics?
- 2 Define CDH.
- 3 What is CAP.
- 4 What is key Value Database?
- 5 Describe two publish subscribe messaging frame works?
- 6 What is the Data Node in HDFS Architecture?
- 7 What is Hadoop and Map Reduce?
- 8 What is Apache Oozie?
- 9 Define foreign key.
- 10 What is Defining a View in Django?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain briefly about 5v's of Big Data. [10M]
OR
- 12 A) What is interactive Querying in Big Data Stack? [5M]
B) Explain various Frameworks which allow analysis of data in Batches. [5M]
- 13 List the classification of NoSQL databases and explain about Graph Data Base? [10M]
OR
- 14 A) Explain the HBase Architecture? [5M]
B) Explain data flow in Map reduce patterns? [5M]
- 15 Analyze the publish-subscribe messaging frameworks? [10M]
OR
- 16 List out the frameworks of data acquisition considerations? [10M]
- 17 List and explain the main components of Hadoop? [10M]
OR
- 18 Illustrate case study on Apache spark. [10M]
- 19 Draw a Django architecture adopts a Model-Template-View (MTV). [10M]
OR
- 20 Design Amazon Dynamo DB for a reference application that retrieves and stores weather data for different cities? [10M]