



R20 Regulation

Subject code:3P7HA

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech VII Semester Regular Examinations, November 2023

### BIG DATA ANALYTICS (CSE (DATA SCIENCE))

Maximum Marks: 70

Date:08.12.2023 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 which carries 10M.
  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	Define Big Data.	L1
2	What is the use of Amazon Elastic Map Reduce?	L1
3	List some of the design styles in Big Data patterns.	L1
4	What is the use of Document Database?	L1
5	Define Data Acquisition?	L1
6	What is HDFS?	L1
7	What are the applications of PIG?	L1
8	Define Map reduce.	L1
9	Differentiate SQL and NO SQL databases.	L2
10	Give some applications of DJango?	L1
Part-B		
Answer All the following questions.		(5X10M=50Marks)
11	A. Discuss about types of analytics of Big Data. 5M B. Explain in detail about Cloudera CDH Stack. 5M	L1 L2
OR		
12	A. What are the characteristics of Big Data? 5M B. Give some domain specific examples of Big data.5M	L1 L1
13	Give a brief note of architecture components in Big Data? 10M	L2
OR		
14	Explain the usage of Graph database with an example. 10M	L3
15	A. Explain the anatomy of write operation in HDFS. 5M B. Explain in detail about messaging queues. 5M	L2 L2
OR		
16	A. Explain in detail about Publish-Subscribe Messaging framework. 5M B. What are the various forms of Big Data? Explain the suitable Data Exploration techniques. 5M	L2 L2
17	A. Explain the architecture of Building blocks of Hadoop. 5M	L2

	B. Describe the anatomy of Map Reduce program and discuss various types of failures in running a Map Reduce job. 5M	L3
	OR	
18	A. Explain the creating, dropping and altering databases using SQL. 5M B. How map reduce works on Big data. 5M	L3 L2
19	A. How the data is extracted and stored in No SQL databases 5M B. What are the various Relational data bases and how they are used in BDA applications? 5M	L4 L2
	OR	
20	Elaborate Django application for viewing weather data. 10M	L3