



Term End Examination

Dec 2023

CET4001B - Big Data Technologies

Question Paper ID: 026667

Faculty/School	Engineering and Technology	Term	Semester V
Program	TY B.Tech CSE	Duration	2 Hours 30 Minutes
Specialization		Max. Marks	70

Section - 1 (7 X 10 Marks)

Answer any 7 questions

1	Discuss how big data analytics is beneficial in the following context: a) Improving Healthcare and Public Health b) Improving Science and Research c) Improving Finance and Banking d) Improving Education sector	10 marks	CO1	Understanding
2	What is NoSQL? Explain features and types of NoSQL databases.	10 marks	CO2	Remembering
3	Illustrate the working of MapReduce with the help of suitable example.	10 marks	CO3	Remembering
4	Discuss and Elaborate Read and Write Operation in HDFS with proper diagram.	10 marks	CO3	Understanding
5	List the Daemon Services in Hadoop and explain each with appropriate diagram.	10 marks	CO3	Understanding
6	What is Flume ? Explain in detail the steps for injecting stream data with Flume.	10 marks	CO4	Remembering
7	Demonstrate data transfer process of Sqoop with the help of systematic diagram.	10 marks	CO4	Applying
8	Explain the following big data visualization methods with diagram: i) Bubble Chart ii) Sunburst iii) Tree map iv) Circle packing v) Parallel Coordinates	10 marks	CO5	Understanding
9	What is D3.js ? Mention the benefits of it and write minimum five modules supported in D3.js.	10 marks	CO5	Evaluating
10	1. Compare Big Data Visualization Methods based on various factors such large volumes data, data variety and data dynamics. - 5 M 2. Explain the PIG architecture with suitable diagram. -5 M	10 marks	CO4, CO5	Analysing

END OF QUESTION PAPER