Dr. Vishwanath Karad
MIT WORLD PEACE
UNIVERSITY | PUNE
MIT-WPU
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

PRN: 1032210755

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	Core	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 *5 - 6 marks*	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. *3 - 4 marks*	10 marks	CO3	Remembering
4	Discuss and Elaborate Read and Write Operation in HDFS with proper diagram. *10 marks*	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*	10 marks	CO4	Remembering
7	Demonstrate data transfer process of Sqoop with the help of systematic diagram. *10 marks*	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. *3/4*	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 *5 marks*	10 marks	CO4, CO5	Analysing

END OF QUESTION PAPER