


Name:			
Enrolment No:			
UPES End Semester Examination, December 2023			
Course: Big Data Overview Program: B.Tech (CSE-H+NH)-All Spec Course Code: CSBD3013P		Semester: 5 Time : 03 hrs. Max. Marks: 100	
Instructions: Support your answers with necessary diagrams wherever required.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Enumerate the three key differences between database and file management system.	4	CO1
Q 2	“Improved Customer Service” and “Reduced operational costs” are among a few benefits of Big Data Analytics. Elaborate.	4	CO1
Q 3	Illustrate the characteristics of Big data.	4	CO2
Q 4	Describe the advantages of NoSQL database over traditional database in handling Big Data .	4	CO3
Q 5	Identify the differences between vertical scaling and horizontal scaling.	4	CO4
SECTION B (4Qx10M= 40 Marks)			
Q 6	<p>The given file has some text .Apply map-reduce computation and find out the frequency of occurrence of each word in the file .</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Welcome to UPES This University is located in Dehradun Dehradun is in Uttrakhand</p> </div>	20	CO3
Q 7	Elucidate the concept of Big Data Pipeline. Also discuss the tools that offer support in various activities carried out in this pipeline.	10	CO2
Q 8	Big Data Ecosystem includes 4 major contributors. Briefly explain with help of examples.	10	CO1
Q 9	Consider the case study of Instagram and highlight the advantages of big data exploited by Instagram for improving its business.	10	CO3

	OR Discuss how ZOMATO leverages the power of big data for its business operations.		
SECTION-C (2Qx20M=40 Marks)			
Q 10	Identify the differences between Hadoop 1.0 and Hadoop 2.0 .	20	CO4
Q 11	With the help of an example like e-commerce platform describe the concept of Polyglot Persistence . OR Discuss and elaborate the architecture of YARN.	20	CO3