


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, September 2023			
Course: Big Data Analysis Program: B.Tech CSE Course Code: CSBD 3009		Semester: III Time: 03 hrs. Max. Marks: 100	
Instructions: Explain in short. (60-70 words)			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Describe the term Pig in Bigdata Analysis with an appropriate example. Also, specify the factors influencing it.	4	CO1
Q 2	Briefly discuss the types of analytics available in Bigdata field.	4	CO2
Q 3	Explain the meaning of Data munging in BDA.	4	CO4
Q 4	Discuss all the challenges faced by BDA domain.	4	CO1
Q 5	Elaborate the difference between the Bigdata and Traditional data using real-life examples.	4	CO4
SECTION B (4Qx10M= 40 Marks)			
Instruction: Write brief notes. (100-150 words)			
Q 6	Explain the concept of Pig in big data analysis field.	10	CO2
Q 7	Write a short note on HDFS and its architecture in the BDA domain.	10	CO3
Q 8	Elaborate the term Hadoop in BDA. Also, explain its characteristics and roles.	10	CO1
Q 9	Write down the difference between: (i) Hadoop and HDFS (ii) Hadoop and Hive OR Elaborate the term Impala used in BDA domain. Also explain the Requirement of Big Data analysis.	10	CO2

SECTION-C
(2Qx20M=40 Marks)

Instruction: Write long answer. (Up to 350 words while explaining)

There is no choice for question no.11.

Q 10	Write all the steps followed by the Hive concept in BDA field. Also explain its architecture using a proper diagram. <p style="text-align: center;">OR</p> Explain the idea to deal with the challenges occurring in the domain of Pig. Also elaborate the architecture and working of Hadoop with an appropriate diagram. (10+10)	20	CO3
Q 11	Mention the different categories of SQL commands. Also explain each category commands with an example.	20	CO4