

Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, May 2022</b>			
<b>Course: Big Data Storage</b> <b>Program: B.Tech-CSE-BD</b> <b>Course Code: CSBD 2004</b>		<b>Semester: IV</b> <b>Time: 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions: Explain in short. (60-70 words)</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Explain the term Big Data Storage in detail.	4	CO1
Q 2	Difference between NoSql and RDBMS.	4	CO3
Q 3	Discuss the Traditional file systems in terms of Bigdata storage.	4	CO1
Q 4	Explain the term Sharding in Bigdata storage.	4	CO2
Q 5	Discuss the File system hierarchy with the help of an example.	4	CO4
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
<b>Instruction: Write brief notes. (100-150 words)</b>			
Q 6	Elaborate the term Scaling using sharding with the help of a diagram.	10	CO1
Q 7	Explain the concept of Client-server architecture in Distributed File System.	10	CO2
Q 8	Discourse the usage of Heartbeats signals in HDFS. Also, define the term Checkpointing in HDFS OR Explain the operation of Google File System used in Distributed File System with the help of an example.	10	CO2
Q 9	Discuss the concept of Distributed File System in detail.	10	CO1
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
<b>Instruction: Write long answer. (Up to 350 words while explaining)</b> <b>Attempt any part of question no. 10 as there is an option “a” OR “b”.</b> <b>There is no choice for question no.11.</b>			
Q 10	Explain the need of NoSQL Database Approach. Also, elaborate different types of Nosql with the appropriate diagram.	20	CO3

	<b>OR</b>		
	Discuss the term Bigdata used in today's era. Elaborate the V's of Bigdata along with the appropriate diagram and example.		
Q 11	Elaborate the term Hadoop and explain its architecture. Also, discuss the concept of HDFS in Bigdata Storage.	<b>20</b>	<b>CO4</b>