UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2022

Course: Big Data Security
Program: B. Tech CSE Big Data
Course Code: CSBD4002

Semester: VIII
Time: 03 hrs.
Max. Marks: 100

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Write down the four computing resources of Big Data Storage.	4	CO3
Q 2	What is Map Reduce Programming Model?	4	CO3
Q 3	Briefly explain the data purging.	4	CO2
Q 4	Explain why data need to be cleansed before analyzing.	4	CO2
Q 5	What do you mean by the clustering? Explain k-means clustering.	4	CO3

SECTION B
(4Qx10M= 40 Marks)

Q 6	What is Bigdata? Describe the main features of a big data in detail.	10	CO4
Q 7	Explain in detail about HDFS with diagram.	10	CO4
Q 8	Discuss and differentiate between MapReduce and YARN.	10	CO3
Q 9	Distinguish between Data Mining and Data Analysis.	10	CO2

SECTION-C
(2Qx20M=40 Marks)

Q 10	a) How you can implement Big Data Security in Organizations? State an example. b) Discuss about the Big Data Security Technologies and list a few of them. Or a) There are several challenges to securing big data that can compromise its security. Do you agree with this statement? Justify.	20	CO1

	b) Name some big data security technologies.		

Q 11	Explain the use big data security with respect to:
	   a) Network Traffic Analysis
	   b) Insider Threat Detection
	   c) Data Exfiltration Detection
		20	**CO5**