

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, Dec 2020

Course: Big Data Analysis	Semester: VII
Program: B. Tech. CSE Devops	Time 03 hrs.
Course Code: CSBD 2003	Max. Marks: 100

SECTION A

1. Each Question will carry 5 Marks
2. Instruction: Complete the statement / Select the correct answer(s)

S. No.	Question	CO
Q 1	The different Vs of Big data are -----, -----, -----, -----, -----, -----.	CO1
Q2	Buckets in Hive are created using a. Addition b. Hashing c. Indexing d. Multiplication	CO4
Q3	The differences in standard tables and Big data tables are -----, -----, -----, -----, -----, -----, -----, -----.	CO4
Q4	Select all the correct options a. CRAN package is in R language. b. SCALA is JVM based c. Smile is machine learning library in SCALA	CO2
Q5	Select all the correct statements a. dump is used in Pig to show results on console. b. Hadoop HDFS is written in Python c. HBASE is data storage available in Hadoop Ecosystem. d. Hadoop is open source project	CO2
Q6	Big data issues are -----, -----, -----, -----, -----, -----.	CO1

SECTION B

1. Each question will carry 10 marks
2. Instruction: Write short / brief notes

Q 7	Explain Hadoop Ecosystem with different components. Write applications of these components in real scenarios.	CO4
-----	---	-----

Q 8	Use of data munging and wrangling by using example data. Explain isna(),dropna(),drop(),missing_values, columns,info() etc.	CO3
Q 9	Different mining techniques for Big data. Write difference between classification and clustering in context of Big data.	CO1
Q 10	Approaches and steps used for exploratory data analysis. Explain scatter plot, heatmap, histogram, distplot and countplot used in EDA.	CO3
Q 11	Requirement of Big data analysis.	CO1
Section C		
1. Each Question carries 20 Marks. 2. Instruction: Write long answer.		
Q12	<p>Explain steps used for creating tables, partitions and buckets in hive. Use queries to explain these steps. Write differences between static and dynamic partitioning.</p> <p style="text-align: center;">OR</p> <p>Explain architecture of Impala with detailed description of daemon, catalog, meta data and state store components. Write features of impala.</p>	CO4