

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
School of Computer Science

End Semester Examination, December 2020

Course : Bigdata Analytics	Semester : VII
Program : B.Tech CSE BAO	Time : 03 Hours
Course Code : CSBA4001	Max. Marks : 100

Instructions :

SECTION A

SECTION A		Marks	
1. Each Question will carry 5 Marks			
Q1	Differentiate between HDFS and Hivs?	05	CO3
Q2	Analyze the statement “Big Data Analytics is a dual edged sword”.	05	CO4
Q3	Analyze the growth in Big data analytics post 2010 in terms of velocity.	05	CO1
Q4	Define a stream query language ?	05	CO2
Q5	Analyze the fault tolerance in Hadoop.	05	CO2
Q6	What is the role of ZooKeeper in Hadoop?	05	CO3

SECTION B

SECTION B

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

Q7	Analyze the architecture of Hadoop in relation to distributed environment?	10	CO2
Q8	Describe the following in relation to Big Data Analytics: a. Extract b. Load c. Transform	10	CO1
Q9	Write the use and syntax of following HDFS commands. a. Put b. Get c. copyFromLocal d. copyToLocal	10	CO3

	e. jps		
Q10	Analyze the use of Heartbeat and Block Report in HDFA	10	CO3
Q11	How is Hadoop different from storage area network. (SAN) OR Explain the rack awareness algorithm in hadoop.	10	CO2
SECTION C			
SECTION C			
1. Each Question carries 10 Marks. 10*2=20			
2. Instruction: Write long answer.			
Q12	Analyze various Hadoop daemons and their roles in a Hadoop cluster. OR Answer the following questions: a. Describe the mechanism of network updating in Hadoop in case a node fails. b. In case of failure, analyze the usefulness of mechanism utilized by Hadoop to tackle data loss.	20	CO2