

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Big Data Overview	Semester: I Sem
Programme: BTech CSE + Big Data	
Time: 03 hrs.	Max. Marks: 100
Instructions:	

SECTION A

S. No.	Question	Marks	CO
Q 1	Explain the difference between Hadoop and traditional RDBMS.	4	CO1
Q 2	Summarize why Supercomputer is not a good solution for Hadoop. How Hadoop / Big Data do processing using commodity hardware.	4	CO1
Q 3	Categorize the most common file formats available in Big Data?	4	CO4
Q 4	Show how Big Data analysis is helpful in increasing business revenue?	4	CO2
Q 5	Illustrate the advantage and limitation of Hadoop.	4	CO1

SECTION B

Q 6	Describe the steps to be followed to deploy a Big Data solution with suitable diagram.	8	CO2
Q 7	Identify the 5 Vs of Big Data. What are the different open source projects available related to all 5 Vs?	5+3	CO3

OR

Q7	Distinguish the different categories of Big Data. How these categories are used in Big Data application.	6+2	CO3
Q 8	Outline CAPs theorem and provides 2 examples of NoSQL databases in each category of CA, AP, and CP. What are the different databases are related to CAPs theorem?	4+2+2	CO4, CO5

OR

Q 8	State polyglot persistence? What is a Hadoop block architecture and how it is managed in Big Data?	2 +6	CO4, CO5
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SECTION-C

Q 9	Define the various job roles and responsibilities in a Big Data analytics project? How Data Analyst is different from Data Scientist?	15+ 5	CO2
Q 10	Demonstrate why Data lake is required in an organization. What are the different zones available and explain their roles in Data lake? How to implement a Data Warehousing in Hadoop.	4+4+6 +6	CO5

OR

Q 12	Demonstrate the features of NoSQL? When should we use a NoSQL database	5+2+5	CO4
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	instead of a relational database? Compare NoSQL & RDBMS. Write types of NoSQL databases with an example.	+8	
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