


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Data Visualization and Analytics Program: B.Tech. CSE-BAO Course Code: CSBA2007		Semester: III Time: 03 hrs. Max. Marks: 100	
Instructions: 1. Attempt all questions. 2. Write the code in python wherever is required.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Expand SPLOM	4	CO1
Q2	Describe the advantages of correlation analysis	4	CO2
Q3	Explain the two types of statistical analysis.	4	CO3
Q4	Elaborate about the different types of dashboards.	4	CO4
Q5	Why do we use D3.js?	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Differentiate between Multivariate, Bivariate and Univariate Data Analysis with type of charts and graphs which can be used for them.	10	CO2
Q7	illustrate Probability density function with suitable graphical representations.	10	CO2
Q8	What's the Difference between story and dashboard in Tableau,	10	CO3
Q9	Either explain briefly how data can be analyzed, else elaborate about the classification of data.	10	CO1
SECTION-C (2Qx20M=40 Marks)			
Q 10	Draw and give details about Data Science Process. Write and explain all formulas of confusion matrix. (12+8 Marks)	20	CO4
Q11	Describe the importance outliers. Visually show in detail about box whisker plot or violin plot. (8+12 Marks)	20	CO3