Name:

Enrollment No:



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Sem Examination, December 2021

Course: Data Visualization for Analytics Programme: B.Tech. CSE BAO Time: 03 hrs.

Semester: III **Course Code: CSBA2007** Max. Marks: 100

SECTION A

Q. No.		Marks	СО
Q 1	Explain different types of data with examples.	4	CO1
Q 2	Define Multivariate analysis. List out any three methods used for Multivariate analysis.	4	CO2
Q 3	Define Null and alternate hypotheses with examples.	4	CO3
Q 4	Write the differences between Business intelligence and Business Analytics.	4	CO4
Q 5	Let's assume; a diagnostic test has 99% accuracy, and 60% of all people have Covid-19. If a patient tests positive, what is the probability that they actually have the disease?	4	CO3
	SECTION B		
Q 6	Explain different types of maps with examples.	10	CO1
Q 7	Discuss any five visual forms and their application.	10	CO1
Q 8	Explain any five reasons for outliers in a data set. How can Dbscan algorithm be used to detect outliers in the given data set?	10	CO2
Q 9	Find the correlation using Karl Pearson's coefficient of correlation between the values of P and Q given here under:P46687275807093100Q6450394812524630	10	CO2
	Q 64 50 39 48 12 52 46 30 OR		
	State the correlation by calculating the Spearman's rank Correlation coefficient between the variables P and Q given here under:P35364038373941403638Q65727877767780797675	10	CO2
	Section C		
Q 10	 a) How can boxplots be used for outlier detection? Explain different components of a boxplot. b) Draw a boxplot for the given dataset and identify the outlier values. 	10+10	CO3
Q 11	 a) Discuss different types of dashboards with their applications. b) Explain step by step process of creating the dashboard in detail. OR 	10+10	CO4
	a) Discuss any three 3D plots with their applications.b) How can the animation be created using Matplotlib? Discuss steps to develop animation of any one 3D plot.	10+10	CO4