School of Computing Science and Engineering B.Tech CSE

ETE - Jun 2023

Time: 3 Hours

Sem IV - E1UE401B - Data VIsualization

Your answer should be specific to the question asked

Draw neat labeled diagrams wh	erever necessary
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1.	What are the advantages of NumPy Arrays Over Python Arrays. How to create an empty and a full NumPy Array?							K3 CO3	(5)
2.	Define Measure of Central Tendency.							K2 CO2	(5)
3.	Define Visualization History and its Importance.							K1 CO1	(5)
4.	Describe any five Num PY instructions that are used regularly. Describe the various Numpy operations: (Slicing, Splitting, Filtering, Filtering, Reshaping)							K4 CO4	(10)
				OR					
	Create Seaborn categorizes Matplotlib's parameters into two groups.							K4 CO4	(10)
5.	Use Seaborn, which analyses the two ratings for five films, to make it visually representation.						it visually representation.	K4 CO3	(10)
6.	Find Mean, Variance, standard deviation and Coefficient of variation for the following data give below: Class Interval: 2000-3000 3000-4000 4000-5000 5000-6000 6000-7000					K2 CO2	(10)		
	Frequency:	2	5	6	4	3			
7.	Explain Correlation and Regression with Numerical and Quantitative							K1 CO1	(10)
8.		r Sorting, C	Combining,	and Resha	ping the d	ata s	atial Plot in Data visulization et using Numpy. What is stem?	. K3 CO3	(15)
9.	Create a Choroplet	h Map and	Connection	n Map by us	sing pytho	n.		K4 CO4	(15)
				OR					
	Create a Pie chart and Box plot by using python.						K4 CO4	(15)	
10.					ommand to	o inte	rpolate two objects in d3.js?.		. ,

Marks : 100