School of Computing Science and Engineering
B.TECH CSE with specialization in Computer Science and Business Systems
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem VII - CSBA4702 - Data Visualization Using R

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Define R Programming	K1 (2)
2)	Classify the functions of brushing and linking in interactive data visualizations.	K2 (4)
3)	Describe a situation with an example where using a donut chart would be effective.	K2 (6)
4)	Suppose you need to display the correlation between two numerical variables along with the distribution of each variable. Which visualization method would you choose?	K3 (9)
5)	You have data on the performance of students in three subjects: Math, Science, and English. Create a bar chart to compare the average scores of these subjects.	K3 (9)
6)	Propose the various Interaction Required for the Visualization. Discuss the types.	K5 (10)
7)	Explain in detail about Comparative Statistics in Exploratory analysis.	K4 (12)
8)	Explain with neat diagram of Data Transformation Process.	K5 (15)
9)	Write a R program to create two 2x3 matrix and add, subtract, multiply and divide the matrixes.	K5 (15)
10)	Write a R program to create three vectors numeric data, character data and logical data. Display the content of the vectors and their type	K6 (18)