TUTORIAL QUESTIONS

Subject: Statistics with R Programming

Unit No.	SL.No.	Questions	Bloom's Taxonomy level	Mapped with CO
I	1	Explain about Sessions and Functions in R Language	3	CO1
	2	Explain the Variables with the help of examples,	4	
	3	Explain the different Data Types in R-Programming	3	
	4	Explain the concept of Vectors in R-Programming	4	
	5	Explain Data Frames in R-programming	3	
	6	Explain about Lists in R-Programming	4	
	7	Explain about Matrices in R-Programming.	5	
	8	Explain Arrays in R-Programming.	6	
	9	What is factor? Explain with the help of example.	4	
	10	What are the different Classes in R Programming	7	
II	1	Explain about R Programming Structures.	4	CO2
	2	Explain the different Control Statements in R	3	
	3	What are the different Loops in R-Programming	2	
	4	Explain the Arithmetic and Boolean Operators in R	1	
	5	What are Complex Objects in R	7	
	6	Explain Functions in R.	5	
	7	Explain about Recursion in R programming	6	
	8	Explain the concept Pointers in R- Programming	7	
	9	A Quick sort Implementation-:	5	
	10	Construct A Binary Search Tree Using R-Programming	6	
III	1	Explain Simulation in R	6	CO3
	2	Explain about Math Function in R.	4	
	3	Explain the following concepts Calculating Probability-Cumulative Sums and Products-Minima and Maxima- Calculus	2	
	4	Explain the different linear Algebra Operations on Vectors	2	
	5	Explain, Linear Algebra Operation on Matrices in R.	2	
	6	What are Functions Fir Statistical Distribution in R,	4	
	7	Explain Sorting in R-Programming.	6	
	8	What is Set Operation, and explain the Input /out put	4	
	9	Explain Stationary Distribution of Markov Chains in R.	6	
	10	Explain Reading and writer Files in R.	3	
IV	1	Explain how to create Graphs.	3	CO4
	2	Explain the Workhorse of R Base Graphics	4	
	3	Explain the plot() Function in R.	4	
	4	What is points () function? Explain with an example.	4	
	5	What is legend () function? Explain with an example.	4	
	6	What is text () function? Explain with an example.	4	
	7	What is locator () function? Explain with an example.	4	
	8	Explain the changing Character sizes concept in Customizing Graphs	6	

	9	Explain about the Customizing Graphs.	3	
	10	Explain the procedure for Saving Graphs to Files.	3	
V	1	Explain the Probability Distributions in R.	4	CO5
	2	Explain the Normal Distributions in R	3	
	3	Explain the Binomial Distributions in R	3	
	4	Explain the Poisson Distributions in R	4	
	5	Explain the Other Distributions in R-Programming	3	
	6	What are the Basic Statistics in R-programming	3	
	7	Explain about Correlation.	4	
	8	Explain about Covariance.	2	
	9	Explain about T-Tests	6	
	10	Explain ANOVA concept in R-Programming.	8	
VI	1	What are the different Linear Models in R.	3	CO6
	2	Explain Simple Linear Regression, -	3	
	3	What are the different Multiple Regression Generalized Linear Models?	9	
	4	Explain about Logistic Regression.	3	
	5	Explain Poisson Regression in R	4	
	6	Explain the concept of Decision- Random Forests.	4	
	7	What are the different Generalized Linear Models?	9	
	8	Explain the concept of Survival Analysis	8	
	9	Discuss about different Nonlinear Models	4	
	10	Explain the concept Splines- Decision-	6	