

VR Siddhartha Engineering College Department of Information Technology



Course Code: 20BS4101 ASSIGNMENT-1 QUESTION BANK A.Y:2021-22/Sem-2

Q.No		Question	Course Outcome	BTL
1	a	List out various data types available in R Language?	CO1	Understand
	Ь	Create a function to calculate the average, median and mean for a numeric vector age in employee database	CO1	Apply
2	a	Illustrate with an example NA and NULL?	CO1	Understand
	b	Define variable and write a short note on it. How do you assign value to variable in R and how do you remove variable.	CO1	Understand
	<u>K</u>	Create a data frame that stores the name, age, designation of the employee. Find how many employees are working in each designation?	CO1	Apply
3	a	Write a short note on R Studio Tools?	CO1	Understand
	سطر	Create two vectors that stores the details of name and gender of the employees. Find how many male and female employees are present	CO1	Apply
	c	What kind of operations can be performed on vectors and dataframes	CO1	Understand
4	a	With an example write a short note on Lists and matrices	CO1	Understand
	b	Explain about control statements in R. Find the cube and square of a given number using while and for loops	CO1	Understand
	<u>Q</u>	Write R code to define the function by using if-else $F(x)=x \qquad \text{if } x<1/2$ $=(1-x) \qquad \text{if } \frac{1}{2}< x<1$ $=0 \qquad \text{otherwise}$	CO1	Apply
5	a	Explain various ways of reading data into R	CO1	Understand
	b	Write a short note on command line interface	CO1	Understand
	С	With examples write a short note on Base Graphs and ggplot2	CO1	Understand
6	a	Write a short note on the following with examples. (i) nchar()	CO1	Understand

		(ii) length()		
		(iii)Factor Vectors		
	b	With examples write a short note on arrays	CO1	Understand