VR Siddhartha Engineering College
Department of Information Technology

Course Code: 20BS4101
ASSIGNMENT-2 QUESTION BANK
A.Y:2021-22/Sem-4

Q.No		Question	Course Outcome	BTL
1	a	Fit a Binomial distribution to the following data X: 0 1 2 3 4 5 F: 2 16 28 12 9 3	CO3	Apply
	b	Explain in detail about normal, binomial distributions.	CO3	Understand
2	a	Explain in detail about Poisson distribution.	CO3	Understand
	b	If there are twelve cars crossing a bridge per minute on average, find the probability of having seventeen or more cars crossing the bridge in a particular minute?	CO3	Apply
3	a	Explain about usage of summary() function in R with examples.	CO3	Understand
	b	Assume that the test scores of a college entrance exam fits a normal distribution. Furthermore, the mean test score is 72 and the standard deviation is 15.2. What is the percentage of students scoring 84 or more in the exam?	CO3	Apply
4	a	Discuss about the significance of ANOVA test.	CO3	Understand
	b	Distinguish between correlation and covariance.	CO3	Understand
5	a	Write the code to plot “random normal variables and their densities”, which results in a bell curve.	CO3	Apply
	b	Write a short note on one-sample test, two-sample t-test and paired sample two-test.	CO3	Understand
6	a	Explain in detail about sorting and order in R with examples	CO3	Understand
	b	Write about the following with suitable examples. i. Cumulative Sum ii. Cumulative product iii. Cumulative Min iv. Cumulative Max	CO2	Understand