

Question Bank Research Methodology

UNIT- III

Q.1 What is origin software? How you can plot 2D graph using origin software?

Q.2 Explain in detail the linear fit for experimental and theoretical data.

Q.3 Short Notes

(i) Analysis of variance

(ii) Least Square fit

(iii) CGCD

Q.4 What is simulation? Explain Monte-Carlo method for simulation technique.

Q.5 Give the details of Mann-Whitney U-test with example.

Q.6 The following data is given:

Types of Animals	Number of animals	Average Domestic animals	Standard Deviation
Dogs	5	12	2
Cats	5	16	1
Hamsters	5	20	4

Calculate the Anova coefficient.

Q.7 What is the most appropriate effect size type for mann whitney u analysis?

Q.8 How to calculate mean from median and standard deviation given the study has non-normally distributed data?