



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions. (6x5=30)

- I. Define representative sampling. Give its importance in scientific research?**
- II. Define at least six types of research.**
- III. Differentiate between properties of Poisson distribution and Binomial distribution.**
- IV. Define randomization, experimental design, standard deviation, standard error, and variables.**
- V. What is F-test? How is it helpful in defining significant difference of means?**
- VI. Differentiate between descriptive statistics and analytical statistics.**

Q.2. Answer the following questions (3x10=30)

- I. How $LSD_{0.05}$ is computed for comparison of individual means?**
- II. Describe regression. How is it helpful to develop cause and effect relationship between variables?**
- III. What is T-test? In what kind of experimental designs T-test can be applied?**