

**FACULTY OF SCIENCE**

B.Sc. (CBCS) III-Year (VI-Semester) Regular & Backlog Examinations, June-2023

Statistics-VI (A)

**(Applied Statistics-II)**

Time: 3 Hours

Max Marks: 80

**SECTION-A**

(4x5=20 Marks)

Answer any Four questions from the following

1. Write the concept of Gauss-Markoff linear model with example.
2. Explain the efficiency of RBD relative to CRD.
3. Define Vital Statistics. Discuss its uses.
4. What is Agricultural Statistics? Explain.
5. Explain LSD. Layout the 4X4 standardized Latin Square Design.
6. Define deflation of index numbers.

**SECTION-B**

(4x15=60 Marks)

Answer all the following questions

7. (a) Explain the analysis of variance for two-way classification.  
(OR)  
(b) What is the difference between “Variability within classes” and “Variability between classes”? Explain with suitable examples.
8. (a) What is meant by RBD? Obtain one missing value in RBD, also write its statistical analysis.  
(OR)  
(b) Estimate one missing observation in LSD and write the statistical analysis.
9. (a) Define complete life table and explain the various types of life tables.  
(OR)  
(b) Explain Chain base and Fixed base methods in constructing an index number.
10. (a) Define National Income. Describe the various methods to estimate National Income.  
(OR)  
(b) What are splicing of two index number series?