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School of Agriculture
Master of Science in Agronomy
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem III - PGS505 - Statistical Methods

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Tell the meaning of +1 indicates in case of scattered plot? K1 (2)
- 2) Explain the primary goal of multivariate analysis? K2 (4)
- 3) Outline the various types of multivariate analysis techniques? K2 (6)
- 4) Construct the various types of cluster analysis methods used for grouping data? K3 (9)
- 5) Construct the null and alternate hypothesis in the context of the Mann-Whitney U-test? K3 (9)
- 6) Interpret the basic analysis of PCA in agricultural data analysis? K5 (10)
- 7) Examine the different goals in Principle Component Analysis (PCA) and its main purpose? K4 (12)
- 8) Conclude the concept of random variables and it's role agronomical data? K5 (15)
- 9) Determine a frequency table of the given data: 52, 34, 32, 29, 63, 40, 46, 54, 36, 36, 24, 19, 45, 20, 28, 29, 38, 33, 49, 37 K5 (15)
- 10) Design a details about F-Test for comparing different data associated with agriculture? K6 (18)