School of Agriculture

Master of Science in Agronomy
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - A1PB101T - Modern Concepts in Crop Production

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) Relate the inverse yield nitrogen law, and how does it relate to crop yield optimization? — K2 (2)

2) Define the applicability of the Mitscherlich yield equation in different cropping systems. — K1 (3)

3) Explain lodging, and why is it a concern in cereal crops? — K2 (4)

4) Summarize genetic factors affect the physiology of grain yield in cereals? — K2 (6)

5) Identify how resource availability affects plant population and spacing decisions. — K3 (6)

6) Solve can crop modeling aid in achieving desired crop yield? — K3 (9)

7) Simplify the breeding strategies used to develop ideal plant types. — K4 (8)

8) Examine the historical development of quantitative agro-biological principles in agriculture. — K4 (12)

OR

Examine the relationship between the Mitscherlich yield equation and nutrient availability. — K4 (12)