

School of Agriculture

Department of Agriculture
Mid Term Examination

Exam Date: 30 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - AGRON512 - Dryland Farming

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Outline the concept of "drought index" and its role in drought forecasting and planning. K2 (2)
- 2) Define drought resistance and outline its significance in crop breeding and agriculture K1 (3)
- 3) Explain the mechanisms by which crop plants develop resistance to drought stress. K2 (4)
- 4) Summarize the key factors contributing to drought resistance in various crop species. K2 (6)
- 5) Identify the soil and climatic parameters critical for successful dryland farming. K3 (6)
- 6) How can we make use of stress physiology research to enhance crop plants' resistance to drought? K3 (9)
- 7) Classify crops based on their drought resistance and suitability for dryland farming. K4 (8)
- 8) Examine the role of agroforestry in enhancing water availability in dryland regions. K4 (12)

OR

Relationship between dryland and rainfed farming impact overall agricultural productivity? K4 (12)