

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC221

Department of Crop Science
BSc Agricultural Science (Honours) Part II Examination
Crop Ecology and Physiology (AGC221)

3 HOURS (100 Marks)

INSTRUCTIONS

Answer any **FOUR** questions. Each question carries **25 marks**.

1. Discuss the management strategies used in maximizing photosynthesis in crop plants [25 marks]
2. Describe the various mechanisms of plant adaptation to droughts [25 marks]
3. Examine any five parameters used in measuring growth in crop plants [25 marks]
4. Outline any five techniques used in improving root architecture in plants [25 marks]
5. Discuss the differences between C4 and C3 plants and how they are adapted to different environmental conditions [25 marks]
6. Examine the characteristics of plant canopy architecture that maximises yield [25 marks]

End of Exam Paper