

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC424

Department of Crop Science
BSc Agricultural Science (Honours) Part IV Examination
Weed Biology and Management

3 HOURS (100 Marks)

INSTRUCTIONS

Answer **FOUR** questions. Two from each section. Each question carries **25 marks**.

SECTION A: Weed Biology and Ecology

1. Discuss weed/Crop competition emphasizing on traits that impact competitiveness of weeds when they compete for the following resources and conditions:
 - a. Water [8 marks]
 - b. Nutrients [8 marks]
 - c. Light [9 marks]
2. Describe the following modes of reproduction for weeds giving relevant examples [25 mark]
3. Discuss the characteristics of problem weeds in Zimbabwe [25 marks]

SECTION B: Weed Management

4. Describe the mode of action of the phenoxyacetic acids group of herbicides. [25 marks]
5. a. Discuss applicability of physical weed management methods under African farming conditions. [10 marks]
b. Describe the mode of action of the dinitroanilines group of herbicides. [15 Marks]
6. Discuss the methods used in managing resistance at farm level [25 marks]

End of Exam Paper