

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC401

Department of Crop Science
BSc Agricultural Science (Honors) Part IV Examination
Weed Management and Control

3 HOURS [100 Marks]

INSTRUCTIONS

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

1. Discuss cultural and ecological weed management systems that are suited for smallholder farmers of Zimbabwe. [25 Marks]
2. a. Describe the mode of action of the triazine group of herbicides. [15 marks]
b. Discuss the mechanical weed management methods suited to Zimbabwean conditions. [10 marks]
3. a. Examine the 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]
4. Discuss the factors affecting efficacy of soil applied herbicides. [25 marks]
5. Discuss the mode of action of the aryloxyphenoxyacetic acids. [25 marks]
6. Discuss the herbicide metabolism in plants focusing on
 - a. Primary reactions. [9 marks]
 - b. Secondary reactions [8 marks]
 - c. Tertiary reactions [8 marks]

End of Exam Paper