

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC401

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

3 HOURS (100 Marks)

INSTRUCTIONS

 **JUN 2023**

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

1. Discuss the use of robots and drones in weed management [25 marks]
2. a) Discuss the factors that affect soil applied herbicides [12 marks]
b) Describe the mode of action of sulphonylureas group of herbicides [13 marks]
3. Discuss the concept of integrated weed management and how it can be exploited in Zimbabwe's communal areas [25 marks]
4. Examine the rise of super weeds and how they can be managed at field and regional level [25 marks]
5. Examine the mechanisms of herbicide metabolism in plants [25 marks]
6. a) Discuss cultural weed management and its relevance to Zimbabwe's communal farming sector [15marks]
b) Describe the mode of action of aryloxyphenoxy-carboxylic acids group of herbicides [10 marks]

END OF PAPER