

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**AGC401**

**Department of Crop Science**  
**BSc Agricultural Science (Honours) Part IV Examination**  
**Weed Management and Control (AGC401)**

**3 HOURS (100 Marks)**

**INSTRUCTIONS**

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

1. Examine the 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 glyphosate group of herbicides. **[15 marks]**  
b. Discuss the mechanical weed management methods suited to Zimbabwean conditions. **[10 marks]**
3. a. Discuss applicability of physical weed management methods under African farming conditions. **[10 marks]**  
b. Describe the mode of action of the phenoxyacetic acids group of herbicides. **[15 Marks]**
4. Discuss the factors affecting efficacy of foliar applied herbicides. **[25 marks]**
5. a. Discuss the mode of action of bipyrilidiums group of herbicides. **[15 marks]**  
b. Discuss the biological control of weeds and its applicability in rural cropping systems. **[10 marks]**
6. Discuss the components of the integrated weed management program for a selected group of smallholder farmers. **[25 marks]**

**End of Exam Paper**