

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DAE011

Department of Crop Science
Diploma in Science Education Part II Examination
Crop Production

3 HOURS (100 Marks)

INSTRUCTIONS

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

1. a) Explain the maize planting methods commonly used in Zimbabwe. [15 marks]
b) Describe the ideal soils and land preparation for Irish potato production. [10 marks]
2. Discuss groundnut (*Arachis hypogea*) production under the following headings;
a) land preparation, [5 marks]
b) two major insect pests, [5 marks]
c) planting and, [5 marks]
d) fertilizer management. [10 marks]
3. a) List five precautions that have to be taken to ensure successful seed inoculation with *Rhizobium*. [5 marks]
b) Explain five ways by which transplanting shock can be reduced in tobacco production. [10 marks]
c) Justify the need for topping in tobacco production. [10 marks]
4. A farmer in Mwenezi District has been allocated a late maturity maize seed variety for the following planting season. Discuss whether it is wise for the farmer to go ahead and plant this variety in the region. [25 marks]
5. Describe the various moisture conservation systems used in cotton fields. [25 marks]
6. a) Discuss the effect of temperature in wheat production. [10 marks]
b) Describe any three systems of irrigating sugarcane. [15 marks]

END OF PAPER