

**GREAT ZIMBABWE UNIVERSITY**  
**GARY MAGADZIRE SCHOOL OF AGRICULTURE AND**  
**NATURAL SCIENCES**  
**DEPARTMENT OF SOIL AND PLANT SCIENCE**

ZIMBABWE UNIVERSITY  
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-- NOV 2024

EXAMINATIONS OFFICE

**ACS 213: ANNUAL CROP PRODUCTION**

**SESSIONAL EXAMINATION**

**2024**

**DURATION 3 HOURS**

**INSTRUCTIONS**

**ANSWER ANY FOUR QUESTIONS**

**Question 1**

In view of food security and climate change, discuss the use of the following:

- a) local seeds (OPVs). [12]
- b) and genetically modified crops (GM) in Zimbabwe. [13]

**Question 2**

- a) Write advisory notes on irrigation scheduling in wheat in Zimbabwe based on the phenological growth stages. [10]
- b) Discuss the factors that makes sorghum more drought tolerant than maize. [15]

**Question 3**

Discuss the use precision agriculture in crop production. [25]

**Question 4**

- a) Describe the pollen-silk synchronisation in maize. [10]
- b) Discuss the impact of moisture stress in maize production. [15]

**Question 5**

Discuss the use of Indigenous Knowledge Systems (IKS) in climate forecasting. [25]

**Question 6**

Discuss the environmental factors that affect wheat production in Zimbabwe. [25]

**END OF EXAMINATION**