

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

MFS 510

Department of Agricultural Economics, Education and Extension
MSc in Food Security and Sustainable Agriculture Part I Examination
Food Security and Climate Change

3 HOURS (100 Marks)

JUN 2024

INSTRUCTIONS TO CANDIDATE

Answer question **ONE** from **SECTION A** and any **TWO** questions from **SECTION B**.

SECTION A (COMPULSORY)

1. (a) Identify actions that could reduce the impact of food production on climate change. **[25 Marks]**
(b) Discuss the impacts of climate change on agriculture and food security. **[15 Marks]**
(c) Outline knowledge barriers associated with selecting climate action for food security in Africa. **[10 Marks]**

SECTION B

2. (a) Discuss the gendered impacts of climate change on food security. **[10 Marks]**
(b) Identify appropriate responses to achieve gender equality and food security in smallholder farming systems under a changing climate. **[15 Marks]**
3. Discuss how ecosystem based adaptation can support food security. **[25 Marks]**
4. (a) Distinguish the following and giving appropriate examples:
i. Soft and hard adaptation for water resources **[5 Marks]**
ii. Adaptation and mitigation **[5 Marks]**
(b) Climate change has resulted in unfair pricing and poor access by the Majority of the population in developing countries. Discuss **[15 Marks]**

END OF PAPER