

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

GEOGRAPHY DEPARTMENT

**MASTER OF SCIENCE DEGREE IN CLIMATE CHANGE AND SUSTAINABLE
DEVELOPMENT**

MCS504: AGRICULTURE, FOOD SECURITY AND CLIMATE CHANGE

EXAMINATION

JUN 2023

TIME: 3 HOURS

**ANSWER ANY THREE QUESTIONS. USE ILLUSTRATIONS AND DIAGRAMS
WHERE RELEVANT. MARKS FOR EACH QUESTION ARE INDICATED IN
BRACKETS [].**

1. Discuss the characteristic features of agriculture in Southern African countries. [25]
2. Design a suitable package of adaptation and mitigation strategies (conventional and indigenous) to climate change for crops and livestock production [25]
3. Discuss the tenets of climate smart agriculture as strategies for enhancing resilient and sustainable farming systems in Southern Africa. [25]
4. Discuss the vulnerability and adaptive capacity of selected farm activities to the impacts of climate change at a local level. [25]
5. Elaborate on the opportunities available in the field of agriculture and food supply in southern Africa amid the issues of climate change. [25]

END OF EXAMINATION

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