

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

GEOGRAPHY DEPARTMENT

JUN 2012

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

MCS504: AGRICULTURE, FOOD SECURITY AND CLIMATE CHANGE

EXAMINATION

TIME: 3 HOURS

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

1. Discuss the drivers for food accessibility and food stability at regional, national, subnational and household levels in the context of climate change. [25]
2. Critique the vulnerability and adaptive capacity of farming practices in Zimbabwe in the face of climate change. [25]
3. Discuss the farming practices that increase food production while limiting GHG emissions (carbon footprint). [25]
4. Food security is a complex sustainable development issue, linked to socio-economic development, environment and trade. Argue for and against the assertion that 'globalization may lead to the persistence of food insecurity and poverty in rural communities in southern Africa amid climate change phenomenon'. [25]
5. Examine the biotic and abiotic technologies for climate change adaptation and mitigation in agriculture in southern Africa. [25]

END OF EXAMINATION

Page 1 of 1