



MANICALAND STATE UNIVERSITY OF APPLIED SCIENCES

FACULTY OF AGRIBUSINESS AND COMMERCE

Agricultural Economics and Development

CLIMATE CHANGE AND ADAPTATION

CODE: HACE229

SESSIONAL EXAMINATIONS

SEPTEMBER 2020

DURATION: 3 HOURS

EXAMINER: MR G. MUNJOMA

INSTRUCTIONS

- 1. Answer Four (4) questions.*
 - 2. Start a new question on a fresh page*
 - 3. Total marks 100*
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1. Write brief notes on each of the following:
 - i. Adaptive Capacity (5)
 - ii. Radiative forcing (5)
 - iii. Ice cores (5)
 - iv. Resilience in the context of climate change (5)
 - v. El Nino-Southern Oscillation (ENSO). (5)

2. (a) Distinguish between Climate adaptation and climate mitigation. (6)
(b) What evidence is there to indicate that there is indeed climate change in Zimbabwe? (9)
(c) Why are issues of climate change of interest to Agricultural Economists? (10)

3. (a) Describe the processes that help in shaping up our present-day global climates and show how these processes are affected by human activities - leading to observed and projected changes in climates. (13)
(b) What are the challenges of coming up with internationally acceptable and effective adaptive and mitigatory strategies to address climate change. (12)

4. (a) The agricultural industry must conduct massive overhaul of its current practices to avoid pushing the climates to irreversible harm. Discuss. (15)
(b) Discuss how communal and smallholder farmers can use indigenous knowledge systems to reduce vulnerability to the impacts of climate change. (10)

5. (a) Describe the main aims and provisions of the UNFCCC and its Kyoto Protocol (10)
- (b) How has the Zimbabwe Government responded to the threats, real and envisaged, posed by climate change since 1992? (15)
6. Agriculture and climate change are clearly and inextricably linked. Discuss. (25)

END OF EXAMINATION