

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE
DEPARTMENT: NATURAL RESOURCES
PROGRAMME: BSc NATURAL RESOURCE MANAGEMENT
NR 405: NATURAL RESOURCES AND CLIMATE CHANGE

51 OCT 2023

DURATION: 2 hrs

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES

Answer **THREE** questions out of the following five questions. You must answer question **ONE** from **SECTION A** and any **TWO** questions from **SECTION B**.

SECTION A (COMPULSORY)

1. a. Explain why strengthening the resilience to drought and disaster through sustainable land management is key to sustainable development. [20 Marks]
- b. Discuss issues of water security under a changing climate. [10 Marks]

SECTION B

2. a. Highlight any two climate mechanisms. [8 Marks]
- b. Explore the characteristics that affect a system's ability to adapt to climate change. [12 Marks]
3. a. Outline the impacts of climate change on the following:
 - i. Biodiversity, and [5 Marks]
 - ii. Agriculture. [5 Marks]
- b. Explain three adaptation measures and two mitigation measures for a(i) and a(ii). [10 Marks]

4.
 - a. Distinguish between certified emission reduction and emission reduction unit. [2 Marks]
 - b. Explain the importance of Safeguards in climate change actions. [8 Marks]
 - c. Outline any five barriers/challenges associated with climate change adaptation and mitigation. [10 Marks]
5.
 - a. Distinguish between climate change and global warming. [4 Marks]
 - b. Describe four international arrangements for addressing issues related to climate change vulnerability, mitigation and adaptation. [16 Marks]

END OF PAPER