

BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF AGRICULTURE  
AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES PROGRAMME

BSc NATURAL RESOURCE MANAGEMENT

NR 405 (1): NATURAL RESOURCES AND CLIMATE CHANGE

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.

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SECTION A (COMPULSORY)

1. (a) Describe the green house effect. [4 Marks]
- (b) Describe climate change adaptation and mitigation with respect to the following:
  - (i) Spatial scale, [4 Marks]
  - (ii) Temporal scale and [4 Marks]
  - (iii) Sectors focused. [6 Marks]
- (c) Explain the following terms in relation to climate change:
  - (i) Resilience, [3 Marks]
  - (ii) Responsiveness, [3 Marks]
  - (iii) Adaptability and [3 Marks]
  - (iv) Susceptibility. [3 Marks]

SECTION B

2. Discuss any two climate change mitigation strategies employed in Zimbabwe. [20 marks]
3. (a). Outline the impacts of climate change on the following:
  - (i) Biodiversity [5 Marks]
  - (ii) Agriculture. [5 Marks]
- (b). Describe natural and anthropogenic causes of climate change. [10 marks]
4. Discuss the positive and negative feedbacks of the green house effect. [20 Marks]
5. Discuss the climate related effects of converting wetlands to other land uses. 20 Marks]

END OF PAPER