BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES

PROGRAMME: BSc NATURAL RESOURCES MANAGEMENT

COURSE CODE: NRM 121: Introduction to meteorology and climate change

DURATION: 2 HOURS   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) Distinguish between the following
   (i) Meteorology and weather forecasting,   [2 Marks]
   (ii) Adaptive capacity and exposure,   [2 Marks]
   (iii) Climate variability and climate change,   [2 Marks]
   (iv) Climate change adaptation and mitigation,   [2 Marks]
   (v) Climate and weather.   [2 Marks]

   b) Explain the importance of weather forecasting to the following sectors
   (i) Agriculture,   [5 Marks]
   (ii) Forestry,   [5 Marks]
   (iii) Wildlife,   [5 Marks]
   (iv) Tourism.   [5 Marks]

SECTION B

2) Global warming is one of the most serious threats of the global environment ever faced in human history. Discuss.   [20 Marks]

3) Using examples, discuss the available evidence to suggest that climate is changing.   [20 Marks]

4) Discuss the drivers of climate change.   [20 Marks]

5) Outline solutions to global warming.   [20 Marks]

END OF PAPER