

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**  
**DEPARTMENT: NATURAL RESOURCES**

**PROGRAMME: BSc NATURAL RESOURCES MANAGEMENT**

**COURSE CODE: NRM 121(1): 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. Explain climate change mechanisms. **[8 Marks]**  
b. Explain the vertical distribution in temperature on the earth's surface. **[10 Marks]**  
c. i) Define air mass. **[2 Marks]**  
ii) Explain the classification of air masses. **[10 Marks]**

**SECTION B**

2. Discuss any four international responses to global warming and climate change. **[20 Marks]**
3. a) Distinguish between climate change adaptation and mitigation. **[5 Marks]**  
b) Describe any three adaptation measure and two mitigation measures to climate change. **[15 Marks]**
4. Discuss drivers of climate change. **[20 Marks]**
5. Explain the interactions of the four climate systems. **[20 Marks]**

**END OF PAPER**