

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**

**FACULTY OF SCIENCE AND ENGINEERING**

**DEPARTMENT OF GEOGRAPHY**

**BACHELOR OF SCIENCE HONOURS DEGREE IN GEOGRAPHY EDUCATION**

**GG 311: CLIMATOLOGY**

**TIME: 2½ HOURS**

**ANSWER ANY THREE QUESTIONS. USE ILLUSTRATIONS AND DIAGRAMS WHERE RELEVANT. MARKS FOR EACH QUESTION ARE INDICATED IN BRACKETS | |.**

 **JAN 2025**

1. Explain three factors that controls atmospheric motion. [25]
2. Describe and explain two models which explains the atmospheric circulation of air. You can use diagrams for illustrations. [25]
3. a) Differentiate dry temperature, dew temperature and humidity. [9]  
b) Using a well labelled diagram explain the hydrological cycle. [16]
4. With reference to Cyclone Idai that struck Zimbabwe in 2019, assess the effects of cyclones in Chimanimani and to the nation as a whole. [25]
5. a) Explain how the ENSO phenomenon develops. [10]  
b) Explain the effects of the ENSO phenomenon on human activities across the world. [15]