## BINDURA UNIVERSITY OF SCIENCE EDUCATION

## **FACULTY OF SCIENCE**

## **GEOGRAPHY DEPARTMENT**



BACHELOR OF SCIENCE HONOURS DEGREE IN EDUCATION (HBScED)/ BACHELOR OF SCIENCE DEGREE IN EDUCATION (BScEd)

**GG311: CLIMATOLOGY** 

EXAMINATION	TIME: 2 1/4 HOURS
	TIME. 2 /4 HOURS

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

1. With the aid of diagrams, explain the global distribution of pressure systems.

[25]

[25]

2. Briefly explain the following concepts as applied in climatology:

- (i) geostrophic wind, [5]
  (ii) coriolis force, [5]
  (iii) pressure gradient force, [5]
  (iv) sea breeze [5]
  (v) anabatic wind. [5]
- 3. Using diagrams of tri-cellular models, explain the global general circulation of air.
- 4. Briefly explain any five factors that affect air temperature. [25]
- 5. Explain the phenomena resulting from condensation of water vapour at or near the ground. [25]

**END OF EXAMINATION** 

PAGE 1 0F 1