BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE EDUCATION

DEPARTMENT: CURRICULUM AND EDUCATIONAL MANAGEMENT STUDIES

PROGRAMME: DIPLOMA IN SCIENCE EDUCATION IN MATHEMATICS AND GEOGRAPHY

COURSE CODE: DG005 Climatology

DURATION: THREE HOURS   **TOTAL MARKS: 75 MARKS**

INSTRUCTIONS TO CANDIDATES
1. Answer any three questions.
2. Use illustrations and diagrams where relevant
3. Marks for each question are indicated in brackets []

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1. Using models, explain atmospheric circulation and how it off-sets energy surpluses and deficits in the earth-atmosphere system.   [25]

2. Account for the variable temperature and rainfall patterns in Zimbabwe.   [25]

3. Outline the factors that generate the motion of the atmosphere.   [25]

4. Distinguish between atmospheric stability and instability and describe how they bring about changes in weather conditions.   [25]

5. Explore how the Walker circulation impacts seasonal weather developments in tropical areas.   [25]

END OF PAPER