

- iv. Explain the relationship between the vertical stratification of the vegetation community and feeding habits of the animals of this region. (8)
2. Assess the impact of Plate tectonics in the development of biogeographical studies. (25)
3. Species have the following options in the face of climate change: adapt, migrate or go extinct. Explain the most likely outcomes for species on islands. (25)
4. Discuss the importance of Charles Darwin's *Origin of Species* and the theory of evolution in explaining the distribution of organisms. (25)
5. Describe any five human factors which result in Biodiversity loss. (25)

END OF PAPER

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE EDUCATION

DEPARTMENT OF CURRICULUM AND EDUCATIONAL MANAGEMENT STUDIES

DIPLOMA IN MATHEMATICS AND GEOGRAPHY EDUCATION

DG 008 (02): BIOGEOGRAPHY

DURATION: 3 HOURS

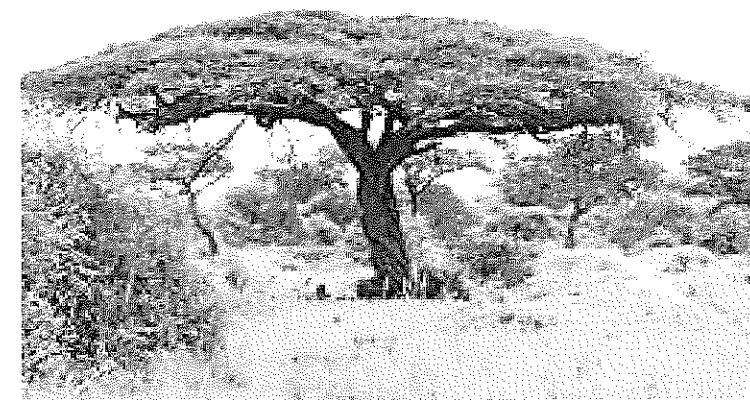
TOTAL MARKS: 75

# INSTRUCTIONS TO CANDIDATES

1. Answer any three questions.
2. Each question should begin on a new page
3. Each question carries 25 marks.

APR 2025

1. (a) Define the following terms:
  - i. biodiversity hotspots, (2)
  - ii. trophic level, (2)
- (b) Photography 1 shows the nature of vegetation in a tropical biome.



Photography 1: Vegetation in an ecoregion.

- i. Name the Ecoregion depicted in the photography. (1)
- ii. Explain the nature of the vegetation shown. (6)
- iii. Other than the climate, discuss any 3 factors that influence the nature of the vegetation. (6)