BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE EDUCATION

DEPARTMENT OF CURRICULUM AND EDUCATIONAL MANAGEMENT STUDIES

DIPLOMA IN MATHEMATICS AND GEOGRAPHY EDUCATION

DG 008 (03): BIOGEOGRAPHY

DURATION: 3 HOURS

TOTAL MARKS: 75

INSTRUCTIONS TO CANDIDATES

1. Answer any three questions.

- MAR 2024
- 2. Each question should begin on a new page
- 3. Each question carries 25 marks.

| 1. | ii. Sweepstakes and | (3) (3) (3) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| org | (b) Describe any 3 barriers that impose limits to the distribution of anisms. | (6) |
| | (c) Explain climate change as a threat to the protection of biodive | ersity. (10) |
| 2. | Assess the continental drift theory as a breakthrough in explaining disjunct biogeographic distribution of present-day organisms. | the (25) |
| 3. | Discuss any five reasons why islands will contain a smaller number than an equivalent mainland area of similar ecology. | of species (25) |
| 4. | (a) Explain the importance of the following processes in terrestrial ecosystems;i. Hydrological cycleii. Weathering | (6) (6) |

(b) Figure 1 below shows the stages in plant succession.

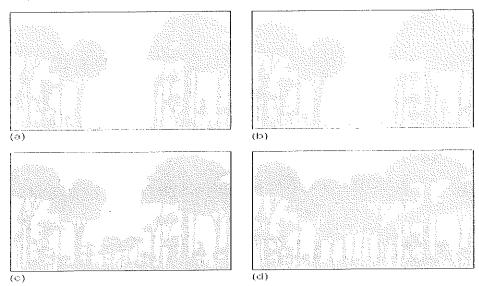


Fig 1.Plant succession in a tropical ecosystem.

- i. Define plant succession. (2)
 ii. Describe the development of the forest through the stages (a) to (d). (8)
 iii. Identify any 3 causes of the barren patch in stage (a). (3)
- 5. Evaluate the role of technology in the fight against global biodiversity loss. (25)

END OF PAPER