

NATIONAL UNIVERSITY OF LESOTHO
BSc & BA SUPPLEMENTARY EXAMINATIONS
PG 3341: BIOGEOGRAPHY

August 2023

Marks: 100

Time: 3 Hours

Instruction: Answer any four questions and where appropriate, illustrate your answers with diagrams

Question 1

- (a) Define species evolution (2)
 - (b) Why do species evolve overtime? (3)
 - (c) Explain five different types of seed dispersal (10)
 - (d) Differentiate between convergent and divergent evolution (10)
- [25]**

Question 2

- (a) Define seed (2)
 - (b) Mention three primary parts of developed seed (3)
 - (c) Discuss any four different types of seed dispersal (20)
- [25]**

Question 3

- (a) Mention geographical changes that may result in allopatric speciation (5)
 - (b) Briefly explain five factors that causes species extinction (10)
 - (c) Describe factors that influence niche of species (10)
- [25]**

Question 4

- (a) Define Biogeography (2)
- (b) Mention any three disciplines that are studied by Biogeographers (3)

(c) Explain how the following scientists have contributed to biogeography

- (i) Charles Darwin (5)
- (ii) Carolus Linnaeus (5)
- (iii) Alfred Russel Wallace (5)
- (iv) Alfred Wegener (5)

[25]

Question 5

Discuss the biotic and abiotic factors that influence distribution of species (25)

Question 6

- (a) Differentiate between primary and secondary succession (5)
- (b) Outline all stages of primary and secondary succession (10)
- (c) Outline five characteristics of grassland biomes (10)

[25]