

**NATIONAL UNIVERSITY OF LESOTHO**

**BSc EXAMINATIONS**

**PG 3341: BIOGEOGRAPHY**

**January 2024**

**Marks: 100**

**Time: 3 Hours**

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

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**Question 1**

- (a) State five disciplines that are studied by Biogeographers. (5)
- (b) 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 2**

- (a) Explain why Tundra and Desert biomes experience low species diversity. (10)
- (b) Explain why Lesotho is regarded as part of the grassland biome. (15)
- [25]

**Question 3**

Write short notes about the following Biogeographic realms.

- (i) Nearctic realm (12)
  - (ii) Palearctic realm (13)
- [25]

**Question 4**

Discuss factors that affect global distribution of plant and animal species. [25]

**Question 5**

- (a) Explain how speciation occurs amongst species. (10)
- (b) Discuss two different types of speciation. (15)
- [25]

**Question 6**

- (a) Explain five different population attributes. (10)
- (b) Discuss three different applications of Biogeography. (15)
- [25]