

**CHUKA**



**UNIVERSITY**

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**UNIVERSITY EXAMINATIONS**

**IGEMBE CAMPUS**

**EXAMINATION FOR THE AWARD OF DEGREE OF  
BACHELOR OF EDUCATION ARTS**

**GEOG 303/GEOG 314: BIOGEOGRAPHY**

**STREAMS: BED (ARTS) L3B1 P/T**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 03/12/2019**

**8.30 AM – 10.30 AM**

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**INSTRUCTIONS:**

**Answer Question ONE and any other TWO**

**Question 1**

- (a) Briefly explain the following concepts:
- |                   |           |
|-------------------|-----------|
| (i) Biosphere     | [2 marks] |
| (ii) Biogeography | [2 marks] |
| (iii) Geosystem   | [2 marks] |
| (iv) Food chain   | [2 marks] |
| (v) Mutualism     | [2 marks] |
- (b) Explain the human impact on the world vegetation type. [10 marks]
- (c) Explain how abiotic factors influence the effects of living organisms. [10 marks]

**Question 2**

- (a) Explain the concept Ecosystem. [2 marks]
- (b) Discuss the effect of human induced pressures on forest ecosystems in Kenya. [18 marks]

**Question 3**

- (a) Differentiate between primary succession and secondary succession [4 marks]
- (b) Discuss the theory of climax community. [4 marks]
- (c) Explain the stages of ecological succession in an ecosystem following a catastrophic disturbance by a tsunami. [12 marks]

**Question 4**

- (a) Discuss five classifications of tropical soils. [10 marks]
- (b) Discuss five factors that are involved in soil formation. [10 marks]

**Question 5**

- (a) Discuss five main zones of temperature grasslands recognized over the world. [10 marks]
  - (b) Explain the effects of environmental pollution on primary productivity. [10 marks]
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