

**CHUKA**



**UNIVERSITY**

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**RESIT/ SPECIAL EXAMINATIONS**

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

**GEOG 303: BIOGEOGRAPHY**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 26/07/2018**

**8.00 AM – 10.30 AM**

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**INSTRUCTIONS:**

**(i) Answer question one and any other two.**

**(ii) Sketches, Maps and diagrams should be used wherever they serve to illustrate an answer.**

1. (a) Write short explanatory notes on the following key concepts (18 marks)
  - i. Photoperiod
  - ii. Ex-situ conservation
  - iii. Sciophytes
  - iv. Genetic biodiversity
  - v. Biosphere
  - vi. Luminiscent organs
  - vii. Edaphic factors
  - viii. Vegetation succession

(b) Briefly explain the three types of weathering as soil forming processes (12 marks)
- 2 (a) Using relevant examples, identify and describe the two types of conservation (12mks)

(b) Discuss the formation of soil catena and its influence on vegetation (8 mks)
3. Examine the Nitrogen cycle and explain its significance in the ecosystem (20 mks)
4. Describe the coastal forests of East Africa and assess their potential as bio-resources (20 mks)
5. (a) What is a biome? Give 2 examples of biomes (4 mks)

(b) Identify and describe the various types of middle and high latitude forests  
(16 mks)

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