

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
EDUCATION (ARTS)

GEOG 314: BIOGEOGRAPHY

STREAMS: BED (ARTS) & EDUCATION (ARTS) Y3S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 5/12/2018

8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer Question ONE and any other TWO Questions
- Sketch maps and diagrams should be used wherever they serve to illustrate an answer

1. (a) Write brief notes on the following; [16 Marks]
 - (i) Biogeography
 - (ii) Ex-situ conservation
 - (iii) Ecology
 - (iv) Genetic biodiversity
 - (v) Biosphere
 - (vi) Luminiscent organs
 - (vii) Edaphic factors
 - (viii) Vegetation succession

(b) Briefly explain the three types of weathering as soil formation processes. [14 Marks]
2. (a) Using relevant examples, identify and describe the two types of conservation. [12 Marks]

(b) Explain the formation of soil catena and its influence on vegetation. [8 Marks]
3. Examine the Nitrogen cycle and explain its significance in the ecosystem. [20 Marks]
4. Distinguish and explain the meaning of the following terms;
 - (a) Food chain and food web [10 Marks]
 - (b) Biome and biomass [10 Marks]

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5. Discuss the dispersal mechanisms accomplished by the following processes;
- (a) Competition [5 Marks]
 - (b) Predation [5 Marks]
 - (c) Symbiosis [5 Marks]
 - (d) Human Activities [5 Marks]
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