



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2018 TRIMESTER

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES

REGULAR PROGRAMME

GES 218: ANTHROPOGENIC INFLUENCE ON THE ECOSYSTEM

Date: APRIL 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Define the ecosystem concept **(2 marks)**
- b) Define the following concepts **(10 marks)**
- i) Population
 - ii) Ecosystem
 - iii) Homeostasis
 - iv) Communities
 - v) Biogeochemical Cycle
- c) Construct a food chain for any one terrestrial ecosystem **(3 marks)**
- d) Explain the ecosystem structure and function **(5 marks)**
- e) Describe the energy flow in the ecosystem. **(10 marks)**
- Q2. a) Discuss the concept of trophic levels in an ecosystem **(10 marks)**
- b) Describe nutrient cycling in the ecosystem. **(10 marks)**
- Q3. Examine the concept “Ecosystem” and discuss the effects of human induced pressures on forest ecosystem in any developing country. **(20 marks)**

- Q4. a) What is biodiversity? **(2 marks)**
- b) Explain the factors that have led to the changing global biodiversity. **(18 marks)**
- Q5. With examples, discuss the effect of human induced pressure on forest ecosystems in Kenya. **(20 marks)**

END