

CHUKA



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**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
ECOTOURISM**

ENSC 253: BIODIVERSITY CONSERVATION

STREAMS:

TIME: 2 HOURS

DAY/DATE: TUESDAY 30/03/2021

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

Answer ALL questions in section A and any two in section B

Do not write on the question paper

SECTION A (30 MARKS)

1. Highlight the structure of a complete self-sustaining ecosystem. [3 marks]
2. (a) Briefly discuss categories of ecosystem services and give an example in each category. [3 marks]
(b) Highlight the role played by a healthy ecosystem in the ecotourism sector. [3 marks]
3. Briefly explain processes involved in the hydrological cycle. [6 marks]
4. Briefly explain the circumstance under which captive breeding and species re-introduction are undertaken. [5 marks]
5. Write short notes on the following: [4 marks]
 - (a) Invasive species
 - (b) Population growth and environmental degradation
6. Briefly discuss three major causes of reduction of biological diversity in Kenya. [6 marks]

SECTION B (40 MARKS)

7. Ecosystems confer both direct and indirect benefits/services to humanity. With relevant examples, discuss services provided by a health ecosystem. [20 marks]
 8. Discuss the consequences of human activities on global biogeochemical cycles. [20 marks]
 9. Discuss various strategies employed by States in the conservation of biological diversity and indicate challenges faced in their implementation. [20 marks]
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