

CHUKA



UNIVERSITY

SUPPLEMENTARY/ SPECIAL EXAMINATIONS

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

ENSC 253: BIODIVERSITY CONSERVATION

STREAMS: BSC (ENSC)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 03/02/2021

2.30 PM – 4.30 PM

INSTRUCTIONS:

Answer ALL Questions in SECTION A and ANY TWO in SECTION B

SECTION A (30 MARKS)

1. Highlight briefly the guiding principles of Environmental Education (5Marks)
2. Write short notes on the following (5 Marks)
 - a. Biodiversity hot spots
 - b. Food chains and food webs
3. Explain briefly the importance of in-situ conservation (5 Marks)
4. Briefly discuss the relationship between poverty and environmental degradation in Kenya. (5 Marks)
5. Explain how some characteristics of invasive species can reduce species diversity of an area (5 Marks)
6. Briefly highlight how human activities have impacted the water cycle. (5 Marks)

SECTION B (40 MARKS)

7. What are biogeochemical cycles? Explain with the help of a diagram the nitrogen cycle. (20 Marks)

8. Discuss the direct and indirect benefits of natural ecosystems to humanity. (20 Marks)
 9. Using relevant examples, discuss major threats causing biodiversity degradation or loss in Kenya. (20 Marks)
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