

CHUKA



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**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
WILDLIFE MANAGEMENT**

WIEM 221: PLANT ECOLOGY

STREAMS: BSC WIEM Y2S1

TIME: 2 HOURS

DAY/DATE: MONDAY 08/04/2024

8.30 A.M – 10.30 A.M.

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other TWO questions in SECTION B.
- Do NOT write on the question paper.

SECTION A (30 MARKS)

1. Write short notes on:
 - (a) Community
 - (b) Autecology
 - (c) Eco-physiology
 - (d) Food chain
 - (e) Biosphere
 - (f) Paleoecology(6 marks)
2. Briefly explain the classification of the plant communities based on the conditions of their habitat. (6 marks)
3. “Absence of plants from the biosphere means end of life”. Briefly discuss. (6 marks)
4. Briefly explain any three abiotic causes of stress in plants. (6 marks)
5. Briefly describe the process of ecological succession. (6 marks)

SECTION B (40 MARKS)

6. Using suitable examples, discuss the influence of human activities on the plant community. (20 marks)
 7. Discuss the Carbon cycle and its functions in plant health. (20 marks)
 8. Plans for increasing the vegetation cover have remained to be the epicenter of discussion in all the global conventions on sustainability during the 21st century. However, its implementation occurs as an illusion in most of the countries. As an example in ecology suggest the possible solutions for realization of these plans as well as overcoming the aforementioned challenges. (20 marks)
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