

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATION
RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
WILDLIFE ENTERPRISE AND MANAGEMENT**

WIEM 415: ENGINEERING FOR WILDLIFE

STREAMS:

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 03/11/2021

8.30 A.M - 10.30 A.M.

INSTRUCTIONS

- Answer **ALL** questions in **SECTION A** and any **TWO** questions in **SECTION B**.
- Do not write anything on the question paper

SECTION A: (30 MARKS)

1. Write short notes on the following terms (6 marks)
 - a. Soil plasticity
 - b. Soil elasticity
 - c. Soil structure
2. Briefly explain the functions of fences in a protected area (5 marks)
3. Briefly describe three types of signages you can install at Kairini conservancy (6 marks)
4. Outline the different parts of a motor vehicle you need to check before starting the engine (5 marks)
5. Briefly explain the effects of tarmacked roads on wildlife in protected areas (4 marks)
6. Describe briefly four measures you would take to mitigate the negative impacts of infrastructure development in protected areas (4 marks)

SECTION B: (40 MARKS)

7. Discuss the importance of soil as an engineering Material (20 marks)
8. Having been contracted to construct a road from Embu to Karatina across Mount Kenya National Park, explain the factors you would consider when designing the road (20 marks)
9. You have been appointed the manager for Kairini captive animals park, discuss the factors you would consider when constructing the cages for the orphaned animals (20 marks)

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