



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL CONSERVATION AND MANAGEMENT

SGP 114: FUNDAMENTALS OF NATURAL RESOURCES MANAGEMENT

DATE: APRIL 4, 2018

TIME: 2:00 – 4:00 PM

INSTRUCTIONS:

ANSWER ANY TEN (10) QUESTIONS (7 MARKS EACH)

- 1) Describe the use of quadrant method in assessing the quantity of grass in a rangeland ecosystem.
- 2) Discuss the tragedy of commons theory in relation to global common resources.
- 3) The fundamental of natural resource management class from the University of Embu visited the coastal region of Kenya and noted that the coral reefs ecosystem on the shore of Indian Ocean were under serious threats of degradation. Describes the steps that should be taken to manage the problem.
- 4) Explain the reasons why air and water are classified as conditionally inexhaustible natural resources.
- 5) Outline the evolution of the development of sustainable development goals.
- 6) Discuss ways in which eco-development can be applied in the industrial sector today.
- 7) Explain how substitution method can be applied in natural resource management.
- 8) Explain the reason why it is important to conserve the endangered animal species.
- 9) Citing examples, explain the application of indigenous knowledge in natural resource conservation.



- 10) Discuss the impact of perpetual emission of carbon dioxide into the atmosphere.
- 11) The environmental conservation students of the University of Embu visited a fishpond in a farm adjacent to the university. They noted that the entire surface of the fish pond had been covered with algal bloom. Discuss the process that may have led to the phenomenon and its impact to the ecosystem.
- 12) Discuss the various ways in which extrinsic natural resources contribute to Kenyan economy today.

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