



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

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

SGP 111: NATURAL ENVIRONMENT

DATE: APRIL 6, 2018

TIME: 11:00 AM -1:00 PM

INSTRUCTIONS:

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

- 1) Explain why endangered species should be conserved.
- 2) Using a diagram, map out various layers of the atmosphere citing their functions.
- 3) Describe any three terrestrial biomes found on the earth.
- 4) Describe the structural aspect of an ecosystem showing the various interrelationships that exist.
- 5) Discuss the process of decomposition citing its significance in the natural environment
- 6) Explain the effects of anthropogenic activities on the hydrological cycles.
- 7) A community contains the following species

<u>Species</u>	<u>Number of Individuals</u>
Species A	104
Species B	71
Species C	19
Species D	5
Species E	3

Compute the Simpson index value for this community?

- 8) Describe the three boundaries formed by the plate tectonic movement of the earth.
- 9) The natural environment students from the University of Embu were called upon to do a presentation on the decline of the various species newborns over time. Using a diagram explain the content of their presentation.
-
- 10) Induced greenhouse effect is a serious environmental challenge today.
- i) Justify the above statement
 - ii) Discuss the mitigation measure that have been put in place to manage the menace.
- 11) Outline the assumptions that are normally made when using capture recapture method of determining population sizes.
- 12) Total destruction of vegetation on earth leads to total collapse of ecosystem. Discuss the statement.

--END--