



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL CONSERVATION AND NATURAL RESOURCE MANAGEMENT

SBE 306: STRUCTURE AND FUNCTION OF EAST AFRICAN ECOSYSTEMS

DATE: APRIL 12, 2018

TIME: 8:30-10:30 AM

INSTRUCTIONS:

Answer Any TEN Questions (7 Marks each).

1. Describe nitrogen cycling in an ecosystem.
2. With examples, explain how temperature affects the variations in morphology of animals in different ecosystems.
3. Explain significance of marine ecosystems to east African countries.
4. Briefly discuss plant forms of arid land vegetation in East Africa.
5. Discuss the factors that may influence the Ecological Carrying Capacity in an ideal ecosystem.
6. Explain the classification of East African arid zones based on their index.
7. As an Environmental conservation student, why would you advocate for conservation of wetland ecosystems in Kenya.
8. With specific examples, explain how animals in different East African ecosystems use locomotion for their survival.

9. Explain the different survival strategies for animals living in extreme Savannah grasslands of East Africa.
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10. You have been appointed as a manager in the Kenyan coastline. What strategies would you employ to increase mangrove forest cover?
 11. With the help of diagrams distinguish pyramids of numbers, biomass and energy.
 12. As a grassland ecosystem manager, why would you recommend prescribed burn in East African grasslands?

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