

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Business & Social Studies

DEPARTMENT OF HOSPITALITY & TOURISM

CERTIFICATE IN TOURS AND TRAVEL OPERATIONS (CTTO S12)

AES 1150: ENVIRONMENTAL STUDIES

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

- This paper consists of Sections A and B.
- Section A is Compulsory. Answer any TWO questions in Section B.
- Mobile phones are not allowed into the examination room.
- Cheating leads to disqualification.
- This paper consists of Three printed pages.

SECTION A (Compulsory) 30 Marks

OUESTION 1

- a) Differentiate the following terms giving relevant examples.
 - i) Renewable resources and non-renewable resources
 - ii) Abiotic factors and biotic factors
 - iii) Community and population
 - iv) Prey and predator.
 - v) Symbiosis and commensalism.

(10marks)

- b) Highlight the role of the Lion as a keystone species in Lake Nakuru National Park using a suitable flow chart. (10marks)
- c) On an educational field trip to Amboseli National park student discovered that there were more herbivores than carnivores. Explain. (10marks)

SECTION B (Answer any TWO questions) 40 Marks

QUESTION 2

a) List FIVE (5) conservation organizations operational in Kenya.

(5 marks)

b) In each of 2a, list THREE (3) core activities the organization is involved in.

(15marks)

QUESTION 3

a) Differentiate between a food chain and a food web.

(2 marks)

b) With the aid of a diagram, illustrate a simple marine ecosystem food chain.

(8 marks)

c) List and briefly describe five ecosystems of East Africa.

(10marks)

QUESTION 4

a) Define the term natural resources.

(2marks)

- b) List Four renewable and FOUR non- renewable natural resources in Kenya (8marks)
- c) On a visit to Tsavo National Park, you see a herd of buffaloes accompanied by small heron-like Birds.
 - i) What is the likely name for the white birds?

(2marks)

ii) How do these birds benefits from associating with buffaloes.

(4marks)

iii) How does the buffalo benefit from the association with the birds.

(2marks)

iv) What is the name of this relationship?

(2marks)

QUESTION 5

With the aid of a diagram, discuss the role of mangroves and coral reefs in regulating marine

Ecosystems. (20marks)