



# MURANG'A UNIVERSITY OF TECHNOLOGY

## SCHOOL OF PURE AND APPLIED SCIENCE

DEPARTMENT OF TOURISM MANAGEMENT

UNIVERSITY ORDINARY EXAMINATION

2017/2018 ACADEMIC YEAR

**FIRST YEAR, SECOND SEMESTER EXAMINATION FOR BACHELOR OF  
SCIENCE IN TOURISM MANAGEMENT**

HTM110: NATURAL HISTORY OF EAST AFRICA FLORA AND FAUNA

DURATION: 2 HOURS

DATE: 19<sup>TH</sup> APRIL 2018

TIME: 9.00AM – 11.00AM

### **Instructions to Candidates:**

1. Answer **Section A** and **Any Other Two** questions in **Section B**.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

**SECTION A – ANSWER ALL QUESTIONS IN THIS SECTION (30 Marks)**

**QUESTION ONE**

- a) Define the following terminologies as used in conservation of flora and fauna.
  - i. Ecotone. (2 Marks)
  - ii. Acclimatization (2 Marks)
  - iii. Environmental gradient (2 Marks)
- b) Giving an example of each, briefly explain any four (4) patterns of cellular organization in animals. (12 Marks)
- c) Briefly discuss any four (4) environmental factors influencing the distribution and abundance of animal species. (8 Marks)
- d) Elephant is a keystone species in a woodland savanna. Explain why. (4 Marks)

**SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION**

**QUESTION TWO (20 MARKS)**

- a) Define succession. (2 Marks)
- b) State any three (3) characteristics of a climax community. (3 Marks)
- c) Discuss three (3) different types of succession. (15 Marks)

**QUESTION THREE (20 MARKS)**

Discuss the phylum chordata under the following sub-headings

- a) Five characteristics (5 Marks)
- b) Give two (2) examples of organisms (2 Marks)
- c) State three (3) types of animal body symmetry (3 Marks)
- d) Describe any five (5) importances of flora and fauna to the tourism industry in Kenya. (10 Marks)

**QUESTION FOUR (20 MARKS)**

- a) State any two (2) differences between Angiosperms and Gymnosperms. (4 Marks)
- b) Discuss the tropical rain forests in Kenya under the following;
  - i. Distribution. (3 Marks)
  - ii. Five (5) characteristics. (5 Marks)
- c) State four (4) characteristics of plants in the phylum Thallophyta. (4 Marks)
- d) Differentiate between a food web and a food chain. (4 Marks)