

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS
RESIT/SPECIAL EXAMINATION**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
ECOTOURISM AND BACHELOR OF TOURISM MANAGEMENT**

WIEM 102: INTRODUCTION TO EAST AFRICA FLORA AND FAUNA

STREAMS: BECO/BTOM/WIEM (Y2S1)

TIME: 2 HOURS

DAY/DATE: THURSDAY 12/08/2021

8.30 A.M – 10.30 A.M.

INSTRUCTIONS

- Answer **ALL** Questions in **SECTION A** and **ANY TWO** in **SECTION B**
- Do not write on the Question paper

SECTION A (30 Marks)

1. (a) Explain how topography has influenced diversity and distribution of biological diversity in East Africa (2 Marks)
- (b) Briefly explain three challenges faced in the classification of flora and fauna (3 Marks)
2. List two types of each of the following animal taxa.
 - a) elephant (1 Mark)
 - b) Gazelle (1 Mark)
 - c) Baboon (1 Mark)
 - d) Hyrax (1 Mark)
 - e) Ostrich (1 Mark)
3. List five factors that make the wildebeest migration in Masai-Serengeti to be considered as a “*World Wonder*.” (5 Marks)
4. (a) Briefly explain one unique characteristic of members of the Order Chelonia. (2 Marks)
- (b) List three unique characteristics of the members of the order Chiroptera. (3 Marks)
5. Suppose as a team you need to go for a field excursion on foot in a remote bush land. Give five main safety guidelines you would follow to avoid being attacked by wild animals. (5 Marks)

6. With the aid of simple sketch diagrams, describe the following morphological characteristics of a given plant:

a) Oblique leaf base (1 Mark)

b) Hypogynous flower (1 Mark)

c) Actinomorphic flower (1 Mark)

d) Opposite phyllotaxy (1 Mark)

e) Simple leaf (1 Mark)

SECTION B (40 Marks)

7. Using examples discuss the threats facing East African fauna. (20 Marks)

8. Discuss the characteristics of the African Elephant (*Loxodonta Africana*) in terms of physical characteristics, habitat, feeding habits, social behavior and reproduction. (20 Marks)

9. Using examples of animals found in East Africa, discuss the benefits and costs associated with group living in animals. (20 Marks)
