

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

WIEM 102: INTRODUCTION TO EAST AFRICA FLORA AND FAUNA

STREAMS: BECO & BTOM Y2S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 13/12/2018

8.30 AM. – 10.30 A.M

INSSTRUCTIONS:

- Answer ALL questions in section A and any other two in section B
- Do not write anything on the question paper

SECTION A (30 MARKS)

- (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]
- List two types of each of the following animal taxa.
 - (a) Zebra [1 mark]
 - (b) Wilde beast [1 mark]
 - (c) Elephant [1 mark]
 - (d) Hyrax [1 mark]
 - (e) Ostrich [1 mark]
- Identify facts that make wildebeest migration in Maasai –Serengeti a world wonder. [5 marks]
- (a) Briefly explain one unique characteristic of members of the order chelonia. [2 marks]

(b) Using an example in each case, explain three types of plant animal interactions.

[3 marks]

5. Suppose as a team you need to go for 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 diagram, describe the following morphological characteristics of a given plant:

(a) Oblique leaf base. [1 mark]

(b) Hypogynous flower [1 mark]

(c) Opposite phyllotaxy [1 mark]

(d) Parietal placentation [1 mark]

(e) Actinomorphic flower [1 mark]

SECTION B (40 MARKS)

7. Using examples of animals found in East Africa, discuss how animals mark and defend their territories. [20 marks]

8. Discuss the *Acacia Commiphora* deciduous bush land and thicket in term of its description and species composition. [20 marks]

9. Using examples of animal found in East Africa, discuss the benefits and costs associated with group living in animals. [20 marks]
