

# **MAASAI MARA UNIVERSITY**

## **REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR**

### THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE (BOTANY) AND **BACHELOR OF SCIENCE (ZOOLOGY)**

## **COURSE CODE: BOT 3215 COURSE TITLE: PLANT-ANIMAL INTERACTIONS**

**DATE: 18<sup>TH</sup> APRIL, 2019** 

TIME: 0830 – 1030HRS

**INSTRUCTIONS TO CANDIDATES** 

Answer ALL questions in section A and any other TWO selected from section B. Illustrate your answers with diagrams and give examples where appropriate.

#### **SECTION A (30 MARKS): ANSWER ALL QUESTIONS**

1. Define the following terms	
a. Predation	(1 mks)
b. Benevolence	(1 mks)
c. Associated defense	(1 mks)
<ol> <li>Illustrate the evolutionary process in the Paleozoic era</li> <li>Explain the repercussions of coevolution</li> <li>Show two examples of reciprocal coevolution</li> <li>Describe the consequences of plant-herbivore interactions</li> </ol>	
6. State three orders of herbivorous insect species and give ex	(3 mks)
<ol> <li>7. Distinguish between spinescence, pubescence and scleroph</li> <li>8. State three benefits of animals to plants</li> <li>9. Describe the impact of Granivory on plant populations</li> <li>10. Describe the evolutionary selection of herbivores agains</li> <li>plants</li> </ol>	ylly (3 mks) (3 mks) (3 mks)
SECTION B (40 MARKS): ANSWER ANY TWO QUESTIONS	

- 11. Describe the woody plant-herbivore interactions in semi-arid<br/>savannah ecosystems.(20 mks)
- 12. Account for the evolution of insect-feeding habits through the geographic timescale. (20 mks)
- 13. Describe the defense strategies that plants use against insect (20 mks)

14.

- **a.** Discuss the economic importance of plant-animal interactions.
- b. Describe the human activities that affect plant-animal<br/>interactions.(10 mks)(10 mks)

//END