

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF

ZOOL 321: FUNDAMENTALS OF ENTOMOLOGY

STREAMS: BSc (AGED), BSc.

TIME: 2 HOURS

DAY/DATE: FRIDAY 8/12/2017

8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer ALL the questions in Section A and any TWO in Section B

SECTION A: [30 MARKS]

1. Give the classification of insects based on;
(a) Presence/absence of wings [2 Marks]
(b) Development of wings [2 Marks]
2. Explain the role of excretory and respiratory systems of insects in body water conservation. [5 Marks]
3. (a) Give two functions of ecdysiotropin (ECT) in insects endocrine systems. [2 Marks]
(b) Explain the role of Ecdysone in metamorphosis. [3 Marks]
4. Describe the functions of structures found in the head of insects. [5 Marks]
5. Describe the classification of pests. [6 Marks]
6. Describe different types of insect larvae. [5 Marks]

SECTION B [40 MARKS]

7. Discuss co-evolution of flowering plants and insects. [20 Marks]
 8. Discuss types of development and metamorphosis in insects. [20 Marks]
 9. Illustrate and describe the following systems in insects;
(a) Digestive system [10 Marks]
(b) Male reproductive system [10 Marks]
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