



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR
EDUCATION SCIENCE WITH IT
2nd YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR
MAIN CAMPUS - REGULAR

COURSE CODE: SZL 205

COURSE TITLE: ARTHROPOD BIOLOGY

EXAM VENUE: LR 1 STREAM: (BED)

DATE: 23/04/2019 EXAM SESSION: 3.00-5.00PM

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B**
 - 2. Candidates are advised not to write on question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1. State the morphological and molecular evidence supporting formation of new arthropod taxonomies as opposed to the maintaining of traditional approach of classification. (3 marks)
2. State any four functions of biramous appendages in crustaceans. (3 marks)
3. State four unique characteristics of the Class Pycnogonida (the sea spiders) (3 marks)
4. Explain the disadvantages any four strategies used for controlling arthropod pests and disease vectors. (3 marks)
5. With aid of a diagram, distinguish between the capitulum of Argacidae and Ixodidae ticks. (3 marks)
6. State four characteristics that make Lepidoptera be agriculturally important. (3 marks)
7. Explain the process of ecdysis in a named arthropod. (3 marks)
8. Give a brief account of the life history of ticks. (3 marks)
9. Describe the unique reproductive strategy in Aphids and termites. (3 marks)
10. Explain the social behavior of arthropods. (3 marks)

SECTION B: ESSAY QUESTIONS (40 Marks)

11. Discuss the characteristics of arthropods that distinguish them from the other animal phyla. (20 marks)
12. Discuss the economic importance of the Class insecta. (20 marks)
13. Discuss the numerous, diverse human medical conditions associated with arthropods. (20 marks)
14. Discuss the habit and life history of tsetse fly. (20 marks)