



BONDO UNIVERSITY COLLEGE

UNIVERSITY EXAMINATION 2012/2013

**1ST YEAR 2ND SEMESTER EXAMINATION FOR THE
DEGREE OF BACHELOR OF EDUCATION SCIENCE WITH IT
(REGULAR)**

COURSE CODE: SZL 205

TITLE: ARTHROPOD BIOLOGY

DATE: 3/12/2012

TIME: 8.00-10.00AM

DURATION: 2HOURS

INSTRUCTIONS:

- 1. Answer ALL questions in section A (3 Marks each)**
- 2. Answer any TWO questions in section B (20 Marks each)**
- 3. Use illustrations where appropriate**

SECTION A

[30 marks]

Answer ALL questions

- Q1. Explain factors that have lead to success and diversity of arthropods (3mks)
- Q2. List the distinguishing features of the major taxonomic groups of the phylum Arthropoda (3mks)
- Q3. Compare and contrast the basic appendage types in arthropods (3mks)
- Q4. State the salient features that distinguish Trilobites from other arthropods (3mks)
- Q5. Describe the typical morphology of arthropods in the sub phylum Crustacea(3mks)
- Q6. Compare and contrast the three types of life cycles in hard ticks (Ixodes) (3mks)
- Q7. State the characteristics that distinguish Orthopteroid insect orders from Hemipteroid orders (3mks)
- Q8. Giving examples describe the principle respiratory systems in aquatic arthropods (3 mks)
- Q9. Name the salient features of arthropod segmentation (3 mks)
- Q10. State the principle identification features of class Brachiopoda (3 mks)

SECTION B (ESSAYS) [40 marks]

Answer ANY TWO questions in this section. Each question carries 20 marks

- Q11. Discuss arthropod ancestry (20mks)
- Q12. With reference to named examples, describe the external morphology of insects (20mks)
- Q13. Describe reproduction and life cycle patterns in arthropods (20mks)
- Q14. Write an essay on the principles arthropod pests and disease vector control (20mks)