

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES UNIVERSITY EXAMINATION FOR THEDEGREE OF BACHELOR OF EDUCATION (SCIENCE)

2^{ND} YEAR 1^{ST} SEMESTER 2013/2014 ACADEMIC YEAR

MAIN

COURSE CODE: SZL 205

COURSE TITLE: ARTHROPOD BIOLOGY

EXAM VENUE: LR 4 STREAM: (Biological Sciences)

DATE: 24/04/14 EXAM SESSION: 2.00 – 4.00 PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL Questions in Section A and ANY other 2 questions in Section B
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A (30 marks)

	1.	List any three characteristics of Class Branchiora.	(3 marks)
	2.	State three ways by which insects can be distinguished from other	arthropods.
		•	(3 marks)
	3.	Describe the circulatory system in crustaceans .	(3 marks)
	4.	Giving specific examples of species where they occur, describe three types	of excretory
		ducts in arthropods.	(3 marks)
	5.	Name any three types of life cycle patterns exhibited by arthropods.	(3 marks)
	6.	Outline any three-discharge mechanisms of defense secretions in arthropods	. (3 marks)
	7.	List three distinctive features of Class Pauropodia.	(3 marks)
	8.	Describe the characteristic features of segmentation in Class Malacostraca.	(3 marks)
	9.	State three host finding strategies in the Order Acari.	(3 marks)
	10.	List any three differences and three similarities between Sub-Phylum T	rilobita and
		Chelicerata.	(3 marks)
SECTION B (40 marks)			
	11.	With relevant examples, discuss control of arthropod pests and disea	ise vectors.
			(20 marks)
	12.	Discuss phylogenetic postulates of arthropod ancestry.	(20 marks)
	13.	Write an essay on the external morphology of insects.	(20 marks)
	14.	Using specific examples, discuss the qualities of successful arthropods.	(20 marks)