



(Knowledge for Development)

## KIBABII UNIVERSITY

## UNIVERSITY EXAMINATIONS **2019/2020 ACADEMIC YEAR**

## FIRST YEAR FIRST SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE) (B. ED SCIENCE) AND BACHELOR OF SCIENCE (B. SC BIOLOGY)

**COURSE CODE: SZL 114** 

COURSE TITLE: INVERTEBRATE ZOOLOGY

**DATE:** 5<sup>th</sup> February, 2021. **TIME:** 2:00 – 4:00 p.m.

## INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Q1.)		
a.	Define invertebrate zoology.	2mks
b.	State any 6 characteristics of living organisms.	3mks
c.	State and Explain 4 challenges faced in animal classification.	4mks
d.	Name 4 sub-phylums of protozoa.	4mks
f.	List any 4 characteristics of protozoa.	4mks
e.	Explain the terms:- i) Species Concept ii) Binomial Nomenclature	2mks 2mks
g.	State the functions of the following: -	3mks
	i.) statocytes ii.) Parapodia iii.) Cynidae	
h. i.	State three characteristics of the phylum Mollusca	3mks
1.	Give three difference between subclasses cestodaria and eucestoda	3mks
Q2.)		
Arthropods are said to be the most advanced organism on earth. Discuss this statement		
Q3.)		20mks
	scuss 5 factors that have made insects the most successful members of the animal ki	ingdom.
		10mks
D.) E	aplain the function of the mantle in the molluscs	4mks
c.) Mention 4 ways by which molluscs harm or benefit mankind Q4.)		6mks
a) Name four classes of phylum echirnodermata.  4mks		4mks
b) State the functions of the water vascular system of asteroid echirnoderms		12mks
c) Name four canals that make up the water vascular system of asteroid echirnoderms		4mks
Q5.)	1 Section of asteroid commodernis	THIKS
a) Describe structure and function of choanocyte cells of porifera 10ml		
b) Describe the different of the state of		
0) 000	series the different physiological types of sponges	10mks