

## UNIVERSITY EXAMINATIONS

# SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH SECOND SEMESTER 2022/2023 [JAN - APRIL, 2023]

#### PHES 205: ECOLOGY AND HEALTH

STREAM: Y2 S2 TIME: 3 HOURS

DAY: WEDNESDAY, 2:00 - 5:00 P.M. DATE: 29/03/2023

#### **INSTRUCTIONS**

- 1. Do not write anything on this question paper.
- 2. Attempt ALL the questions in section A (Compulsory) and any other TWO questions in section B.

### SECTOIN A ATTEMPT ALL QUESTIONS

1.	. Define the following terms as used in ecology		
	i)	Niche	
	ii)	Nitrogen fixation	
	iii)	Ecosystem	
	iv)	Biogeochemical cycle	
2.	Brief	ly explain <b>TWO</b> categories of ecosystem	(4 marks)
3.	Highl	ight functions of an ecosystem	(4 marks)
4.	Outlin	ne two types of food chains	(4 marks)
5.	What	are the roles of decomposers	(4 marks)
6.	Highl	ight process of nitrogen fixation	(4 marks)
7.	Briefl	y explain why carbon cycle is most important in ecology	(4 marks)
8.	Outlin	ne causes of ecological succession	(4 marks)
9.	Highlight manners in which ecological stability can be <b>attained</b>		
		(4	4 marks)

10. Highlight processes of nitrogen fixation (4 marks)

SECTION B ATTEMPT ANY TWO QUESTIONS

11.i) Using a suitable diagram explain the hydrological cycle (7 marks)

ii) What are the health impacts of polluting water bodies?

(8 marks)

12. Explain principles of ecosystem (15 marks)

13.i) describe the classification of aquatic ecology (7 marks)

ii) What are the effects of parasites to the host? (4 marks)