

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN LABORATORY TECHNOLOGY SECOND SEMESTER 2022/2023

(JUNE - SEPTEMBER, 2022)

BSLT 222: ECOLOGY OF FAUNA AND FLORA

STREAM: Y2 S2

TIME: 2 HOURS

DAY: THURSDAY, 12:00 PM - 2:00 PM

DATE: 08/09/2022

INSTRUCTIONS:

1. Do not write anything on this question paper.

2. Answer ALL Questions in section A (Compulsory) and any other TWO

SECTION A: 40 MARKS

I. Explain the meaning of each of the following using suitable examples where appropriate

a) Pioneer organisms	(1 mark)
b) Climax community	(1 mark
c) Biomagnification	(1 mark)
d) Population	(1 mark)
II. Distinguish between the following ecological terms	
a) Epifauna and infauna	(2 marks)
b) Holoplankton and meroplankton	(2 marks)
c) Euphotic and photic zones	(2 marks)
d) Primary and secondary succession	(2 marks)

2. Describe with the aid of labeled diagrams describe the zonation of the sea (6 marks)

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3.	Give a brief e	xplanatio	n on t	he	mech	lanisms	that drive	ecological	succe	ssion
									(6 ma	rks)
4.	Describe brie	fly the th	ree ty	pes	of ad	laptation	IS		(6 ma	ırks)
5.	Describe the	two laws	which	ı ex	plain	the mee	hanisms (of limiting	factor	S
									(4 ma	rks)
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6. Discuss any six properties of soil as an ecosystem (6 marks)

SECTION B: 30 MARKS

7. Discuss various methods of estimating population	(15 marks)	
8. Discuss pollution under the following subheadings:		
i) Sources of pollution ii) Effects of pollution to the environment iii) Control mechanisms	(5 marks) (10 marks) (5 marks)	

9. Discuss the impact of human activities/actions on communities (15 marks)