

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA IN AGRICULTURAL AND APPLIED ECONOMICS SECOND SEMESTER, 2023/2024 (JANUARY-APRIL, 2024)

AGEC 0140: INTRODUCTION TO ECOLOGY

STREAM: Y1 S2 TIME: 2 HOURS

DAY: TUESDAY, 12:00 - 2:00 P.M. DATE: 23/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.
- 2. Questions in Section A are compulsory; choose the other TWO from section B.

SECTION A: ATTEMPT ALL QUESTIONS IN THIS SECTION (40MKS)

1. Describe the following:

(i) Eukaryotic.	(2marks)
(ii) Prokaryotic.(iii) Ecological succession.(iv) Predator satiation.(v) Niche.	(2marks) (2marks) (2marks) (2marks)
2. Differentiate between food chains and food webs.	(4marks)
3. Describe the three facts on which life on earth depends.	(6marks)
4. Discuss the following:	
(i) Net primary productivity.	(5marks)
(ii) Gross primary productivity.	(5marks)

5. Briefly explain biodiversity and its importance. (10marks) SECTION B: ATTEMPT ANY TWO QUESTIONS IN THIS SECTION (30MKS) 6. Discuss the following types of succession: (i) Secondary succession. (5marks) (ii) Primary succession. (5marks) (iii) Cyclic succession. (5marks) 7. Explain global warming. (15marks) 8. Discuss the following species interactions: (i) Commensalism. (5marks) (5marks) (ii) Mutualism.

(5marks)

(iii) Predation.