



NATIONAL OPEN UNIVERSITY OF NIGERIA
National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2023 2 EXAMINATIONS

COURSE TITLE: ANIMAL ECOLOGY
COURSE CODE: BIO 313
CRDIT UNIT: 2
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

- Q1a. Define population and population genetics. (2mks)
- b. Describe ontogenetic and mechanistic factors under proximate causation (4mks).
- c. Explain what you understand by behavioral ecology. (3mks).
- d. State the major distinctions between the two suborders of bats? (4mks)
- e. Briefly discuss low duty cycle echolocation in Microbats (5mks).
- f. Write a comprehensive note on territorial marking (spraying) (7mks).
- Q2a. Discuss foraging behaviour using vole-fox system (7mks).
- b. State and describe 4 regions of electromagnetic radiation striking the Earth's atmosphere? (8mks).
- Q3a. Write a comprehensive note on territorial defence (6mks).
- b. Briefly explain the following types of competition
- i. Interference competition? (3mks).
- ii. Exploitation competition? (3mks).
- iii. Apparent competition? (3mks).
- Q4a What is marine ecology? 2marks
- B State the items ecologists seek to explain. 5marks
- C Explain the two basic concept of population rate. 3marks
- e. Give a brief description of blood consumption in bats 5marks
- Q5 A Define migration as a basic concept of ecology 2.5marks
- B List and explain the different type of population based on age distribution. 4.5marks
- C Explain any four criteria for determining the number of factors in factor analysis. 8marks