



NATIONAL OPEN UNIVERSITY OF NIGERIA
National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2021_1 EXAMINATION 1234

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

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

- 1a. Describe the habitat of Leatherback turtle (*Dermochelys coriacea*) (7mks)
- b. Define population and explain population growth rate (8mks)
- c. Explain natality and mortality rate in animal growth pattern (10mks)

- 2a. Explain immigration and emigration in animal (4mks)
- b. Account for how the environment and human interaction has changed the scope of many animals (5mks)
- c. Give a brief description of the 3 types of age distribution of population (6mks)

- 3a. Define population cycle and list 4 factors which influence population change (3mks).
- b. List and explain abiotic factors that affect population growth (8mks).
- c. Briefly describe animal euthanasia and neutering methods of population control (4mks).

- 4a. What did you understand by the term Demography? (5mks).
- b. Explain Host-parasite Interactions using the bacteria, *Francisella tularensis* (5mks).
- c. Discuss the effects of gravitational forces on an organism scale (5mks)

- 5a. Describe ontogenetic and mechanistic factors under proximate causation (4mks).
- b. Explain Behavioral ecology (3mks).
- c. State the major distinctions between the two suborders of bats (4mks)
- d. Briefly discuss low duty cycle echolocation in Microbats (4mks).