

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja **Faculty of Science**

DEPARTMENT OF BIOLOGICAL SCIENCES 2024_2 EXAMINATION_

COURSE CODE: BIO 313

COURSE TITLE: ANIMAL ECOLOGY

CREDIT UNIT: 3 Units TIME ALLOWED: 3 Hours

6.

INSTRUCTION: Answer Question ONE (1) and any other THREE (3) Questions		
1.	 (a) Write short notes on static (vertical) life table based on mortality records. (b) Explain behavioural adaptations in bats. (7 ma) (c) What are the roles of ecologists? (d) Describe the carangid species found in Nigerian waters with emphasis on Cara Chloroscombrus chrysurus. 	(5 marks)
2.	 (a) Discuss competition among populations. (b) Compare and contrast between Bobo croaker (<i>Pseudotolithus elongates</i>) and Lot (<i>Pseudotolithus typus</i>). (5 marks) 	(10 marks) ngneck croaker
3.	(a) Write an ecological notes on penaeid shrimps in Nigeria.(b) Discuss gravity as an abiotic factor that influences an ecosystem.	(10 marks) (5 marks)
4.	(a) Write short notes on bats.(b) Explain the concept of r/k selection theory.(c) Explain the contribution of Jennifer Borgo to behavioural ecology.	(6 marks) (5 marks) (4 marks)
5.	 (a) In tabular form, highlight six (6) differences in survivorship strategies between TIII. (b) State the two important assumptions of static life tables. (c) Explain behavioural ecology in animal using optimization theory. 	Type I and Type (9 marks) (2 marks) (4 marks)

(a) Differentiate between Semelparous life cycle and iteroparous life cycle .

(c) Describe how optimal behaviour favours natural selection in animals.

(b) Explain migration as a phenomenon in birds.

(4 marks)

(8 marks)

(3 marks)