



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Express way, Jabi-Abuja.

FACULTY OF SCIENCE
JANUARY 2018 EXAMINATION

PROGRAMME

COURSE CODE: BIO 313

COURSE TITLE: ANIMAL ECOLOGY

CREDIT UNIT: 3

TIME ALLOWED: 2HOURS

TOTAL MARKS: 70%

INSTRUCTION: ANSWER FOUR QUESTIONS IN ALL BUT QUESTION ONE IS COMPULSORY

- 1a. Define the term population. **2marks**
- b. Differentiate between density and population distribution. **6marks**
- c. List five limiting factors in an ecosystem. **5marks**
- d. State the four population logistics growth phases. **4marks**
- e. State the importance of the measurement of population dynamics. **5marks**
- f. Explain static life tables. **3marks**

25marks

- 2a. What are the abiotic factors that affects populations. **3marks**
- b. List the parameters affecting macro-invertebrates distributions. **7marks**
- c. Mention five macro-invertebrates. **5marks**

15marks

- 3a. Define the term survivorship curve. **2marks**
- b. With the aid of diagrams, show the types of survivorship curves. **8marks**
- c. State the importance of stage-dependent life-tables. **5marks**

15marks

- 4a. What is Competition. **3marks**
- b. Explain the type of Competitions by Mechanisms. **10marks**
- c. State the main consequences of competition. **2marks**

15marks

- 5a. Define the term population cycle. **2marks**
- b. Explain the relationships between Predators and Prey. **10marks**
- c. State the factors influencing population control. **3marks**

15marks