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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
4. What is Compatition 2months
4a. What is Competition. 3marks
b. Explain the type of Competitions by Mechanisms. 10marks
c. State the main consequences of competition. 2marks
15marks

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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