

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja

Faculty of Sciences

Department of Pure and Applied Science

**APRIL/MAY, 2019 EXAMINATIONS**

**COURSE CODE: BIO 304 (2 CREDIT UNITS) TIME ALLOWED: 2HOURS**

**COURSE TITLE: GENERAL ECOLOGY**

**INSTRUCTION**: Answer question ONE (1) and any other THREE (3) Questions only

1a What is Industrial pollution? (**3marks)**

1b Outline and describe the causes of Industrial pollution **(12marks)**

1c Explain each of the following concepts in ecology

i Primary Succession **(5marks)**

ii Climax vegetation **(5marks)**

2a What is the significance of primary productivity? **(6marks)**

2b Identify the functional components of a named ecosystem, and describe how they interact to form environmental system. **(9marks)**

3a Identify the principal steps in the operation of an ecosystem **(5marks)**

3b Describe the major steps required to address environmental problems of concern **(10marks)**

4a Enumerate the significance of primary productivity in an ecosystem **(3marks)**

4b List and describe any three ways for the presentation of demographic data **(12 marks)**

5a List any three unavoidable and obvious problems created by rapid human population growth **(6marks)**

5b List and explain any three different life processes taking place within the eco-system **(9marks)**