



NATIONAL OPEN UNIVERSITY OF NIGERIA

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

Faculty of Science

Department of Pure and Applied Science

End of Second Semester Examination 2019 Academic Session

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 are the fundamental steps in the operation of the ecosystem (5marks)
- 1b Briefly, but concisely discuss the causes of Industrial pollution? (20marks)
- 2a Write short notes on each of the following:
- i. Primary Succession (4marks)
 - ii. Secondary Succession (4marks)
 - iii. Climax vegetation (4marks)
- 2b Outline any three safety measures for the maintenance of nuclear power plants (3marks)
- 3a Explain the meaning of primary productivity in ecology (9 marks)
- 3b Describe efficiency of energy transfer? (6 marks)
- 4a. List and explain any three different life processes that take place within the eco-System (6marks)
- b. Outline any five human activities that can improve the quality of the ecosystem from conservation point of view (5marks)
- c. Enumerate any four significance of primary productivity in an ecosystem (4marks)
- 5a. Describe the two mechanisms by which nitrogen is returned from the oceans to the land (12marks)
- b. List any three negative Interactions between biotic communities (3marks)