



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE
EXPRESS WAY, JABI - ABUJA.
FACULTY OF SCIENCE
September, 2020 EXAMINATION

BIO BIO 304

COURSE TITLE: GENERAL ECOLOGY

TIME: 2 HOURS

CREDIT UNITS: 2

INSTRUCTION: Answer FOUR questions in all .Question 1 is compulsory

- 1a What is the significance of primary productivity? (5 marks)
- 1b Identify the functional components of a named ecosystem, and describe how they interact to form environmental system. (15 marks)
- 1c What are the two forms of energy readily available for living organisms (5 marks)
- 2a Outline the fundamental steps in the operation of the ecosystem (5 marks)
- 2b Write short notes on each of the following
- i Primary Succession (4 marks)
 - ii Secondary Succession (3 marks)
 - iii Climax vegetation (3 marks)
- 3a What is primary productivity ? (4 marks)
- 3b List and explain the different life processes taking place within the eco-system (11 marks)
- 4. Briefly, explain each of the following components of the ecosystem**
- a. Producers (Autotrophic components), (5 marks)
 - b. Consumers, and (5 marks)
 - c. Decomposers or reducers and transformers (5 marks)
- 5a Describe the unidirectional energy flow in eco-system (12 marks)
- 5b Define the different types of population regulation factors, giving clear examples in each case. (3 marks)