Click to download more NOUN PQ from NounGeeks.com



National Open University Of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science JANUARY/FEBRUARY, 2018 EXAMINATION

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 the significance of primary productivity? (**3marks**)
- 1b Outline and discuss the major biotic components of an ecosystem (9 Marks)
- 1c Identify the functional components of a named ecosystem, and describe how they interact

to form environmental system. (9 Marks)

- 1d In a single sentence describe how living organisms use energy (4 Marks)
- 2a Identify the principal steps in the operation of an ecosystem (**5marks**)
- 2b List and describe any three ways for the presentation of demographic data (10 Marks)
- 3a Outline any three human activities that can improve the quality of the ecosystem from conservation point of view (**3 Marks**)
- 3b Briefly, explain each of the following
- i Habitats (2 Marks)
- ii Niches (2 Marks)
- iii Food chain (2 Marks)
- iv Web (2 Marks)
- v Trophic levels (2 Marks)
- vi Pyramid of numbers (2 Marks)
- 4a What is primary productivity (4 Marks)
- 4b List and explain the different life processes taking place within the eco-system (6 Marks)
- 4c Briefly describe how the unidirectional energy flow in eco-system takes place (5 Marks)
- 5a Enumerate the significance of primary productivity in an ecosystem (4 Marks)
- 5b List any two positive and negative Interactions between biotic communities (6 Marks)
- 5c List the major steps required to address environmental problems of concern (5 Marks)