

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science

Department of Pure and Applied Science

End ofsecond Semester Examination 2021 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 Define the term ecosystem
- 1b What are the fundamental steps in the operation of the ecosystem
- 1c List the major organism groups in an aquatic ecosystem
- 1d Describe the process of Water cycle in the atmosphere
- 2 Differentiate between a Habitat and a Niche of an ecosystem
- 3 Explain the various characteristic features of a population
- 4a Briefly explain each of the following concepts:
- i Primary productivity
- ii Gross primary productivity
- iii Net primary productivity
- iv Ammonification
- v Uptake of Nitrogen by plants.
- 4b what is the significance of primary productivity?
- 5 Describe the process of nutrient cycling within an ecosystem.