



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 First Semester Examination 2021 Academic Session 1234

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 survivorship curve.
- 1b Differentiate between density-dependent and density Independent population factors
- 1c What are the environmental impacts of rising human populations?

- 2 Describe the Carbon cycle with the help of a well-sketch diagram

- 3 Write short notes on each of the following processes as involved in Nitrogen cycling
 - i Nitrification
 - ii Nitrogen Fixation
 - iii Denitrification

- 4a What is ecological Succession?
- 4b Differentiate between each of the following pairs of competition
 - i resource and interference competition
 - ii Interspecific and intraspecific Competition

- 5a Briefly describe the Human Influence on Succession
- 5b Explain the meaning of the Efficiency of energy transfer?