

NATIONAL OPEN UNIVERSITY OF NIGERIA JOGY BIO 304 GENERAL ECOLOGY 2 Hours 14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS **\$CHOOL OF \$CIENCE AND TECHNOLOGY**

MARCH/APRIL 2015 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE:

COURSE TITLE:

TIME ALLOWED:

INTRUCTION: Answer question ONE (1) and any other THREE (3) questions

1a. It is important to sustain the earth's biodiversity. Discuss. (6 marks)

- b. Describe the components of a human population pyramid. (7 marks)
- c. Write **short notes** on the following:
- (i) Territories (4 marks)
- (ii) Population lifetables (4 marks)
- (iii) Denitrification (4 marks)
- 2. Enumerate the world's major environmental problems and suggest how they could be tackled. (15 marks)
- 3a. Humans are considered to be the initiators of secondary succession. Discuss. (8 marks)

- b. Give a detailed description of the structure of a community. (7 marks)
- 4a. Outline the damages caused by acid rain. (3 marks)
- b. Write **short notes** on the following:
- (i) Nitrogen fixation (4 marks)
- (ii) Pyramid of numbers (4 marks)
- 5a. List the primary reservoirs for the chemicals in the biogeochemical cycles?

 b. Distinguish between the following:

 (i) a habitat and a niche (3 marks) molee

- (ii) autotrophs and heterotrophs (3 marks)
- (iii) gross primary productivity and net primary productivity (3 marks)
- (iv) Density-dependent and density-independent factors of population regulation (3 marks)
- 6a. List some special adaptations desert plants and animals have developed. (5 marks)
- label b. With the aid of a well labeled illustration, describe the carbon cycle. (10 marks)