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## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja.

## DEPARTMENT OF SCIENCE EDUCATION.

EXAMINATION: 2021\_2

COURSE CODE: SED327

COURSE TITLE: ENVIRONMENT AND POPULATION

CREDIT UNIT: 3

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

- 1a. What are the actual resources in ecology? (5Marks)
- b. Discuss this vis-à-vis the interdependence of plants and animals especially humans. (7Marks)
- ci. Explain briefly how energy impacts natural environment. (5Marks)
- ii. Discuss the four main constituents of the living environment that forms the fresh water ecosystem. (8Marks)
- 2ai. Outline the constituents of abiotic resources. (3Marks)
- ii. Mention the major classifications under which natural resources can be grouped. (3Marks)
- b. What is the importance of atmospheric resources? (4Marks)
- c. In what ways can species be said to be the dominant one in a community? (5Marks)
- 3a. What is biomass? (**3Marks**)
- b. What causes climatic differences between cities and rural areas? (3Marks)
- ci. How does the manufactured food get transferred to the users? (4Marks)
- ii. Apart from producers, what other group of organisms benefit from this manufactured food? (5Marks)
- 4a. Apart from food, what other things do we get from plants? (4Marks)
- b. What do you think will happen if any member of the chain is missing in detritivores? (2Marks)
- ci. How does plant give shelter to animals? (3Marks)
- ii. In what ways would you say that plant need animals including man? (3Marks)
- d. Explain briefly how energy impacts natural environment (3Marks)

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- 5a. Define the following terms in relation to a population: (4Marks)
  - i. Density
  - ii. Death rate
- iii. Birth rate
- iv. Dispersal
- bi. How is the rate of population increase determined? (2Marks)
- ii. Sketch a graph of the sigmoid growth and explain the stages of the curve. (4Marks)
- ci. List four major groupings of aquatic habitat and state one distinguishing characteristic of each. (3Marks)
- ii. What physical conditions are common to all the habitats and how are they measured? (2Marks)