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## NATIONAL OPEN UNIVERSITY OF NIGERIA

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

FACULTY OF EDUCATION

## 2020\_1 Semester

## COURSE CODE:SED327COURSE TITLE:ENVIRONMENT AND POPULATIONCREDIT UNIT:3TIME ALLOWED:3 HOURSINSTRUCTION:Answer Question One and Any Other Three

- 1ai. Explain the term Demographic Transition in a developing country like Nigeria (5 marks)
- ii Explain briefly how the process of meiotic division contributes to variation in a population (5 marks)
- b. Enumerate five (5) differences between monocotyledons and dicotyledons (5 marks)
- ci. Describe the process of fertilization in plants (5 marks)
- di. State the popular view on the solution to the problem of population explosion (2 marks)
- ii. There are some economic needs for you as human to survive in a nation like Nigeria. Discuss three (3) of them (3 marks)
- 2a. Explain the phases of growth (6 marks)
- bi. Define the following Homeostasis and a Cell (3 marks)
- ii. What can move the system away from equilibrium? (2 marks)
- c. Explain two types of growth we have in plants (4 marks)
- 3ai. What is *population*? (3 marks)
- ii. Write out three ways which man adopts to control environmental factors that would have reduced his population (**3 marks**)
- b. What are the effects of population expansion on people and environment? (3 marks)
- ci. State three (3) importance of mitosis (3 marks)
- ii. What are the differences between mitosis and meiosis among organisms? (3 marks)
- 4a. Differentiate between growth and development (**3 marks**)
- b. What is the difference between the cell division in multi cellular plant and that of bacteria? (2 marks)

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- ci. Is there any hope that in future that the world will not exceed its carrying capacity? (2 marks)
- ii. Describe how COVID 19 virus is (8 marks)
- contracted
- transmitted
- Its signs and symptoms
- How it affects world population
- 5a. Define the following methods of reproduction
- i. Regeneration (**3 marks**)
- ii. Vegetative reproduction (**3 marks**)
- bi. State two disadvantages of Vegetative reproduction (4 marks)
- ii. Explain three types of natural Vegetative reproduction (**3 marks**)
- c. The first stable product of photosynthesis is a simple sugar (glucose). This process can be represented by a reaction which is presented by a chemical equation. Write a balanced equation for the process. (2 marks)