



NATIONAL OPEN UNIVERSITY OF NIGERIA
91 Cadastral zone, Nnamdi Azikiwe Expressway, Jabi, Abuja
FACULTY OF EDUCATION
2024 1 EXAMINATION

COURSE CODE: SED 327
COURSE TITLE: ENVIRONMENT AND POPULATION
CREDIT UNIT: 2
TIME ALLOWED: 2 HOURS
INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER 2

Question 1

- a. The physical or abiotic environment experienced by an organism depends on several factors; State and explain the factors of the physical environment.
- b. Distinguish between cross and self-pollination and explain the process of seed and fruit development in plants?
- c. Explain any four of the following to prove your understanding of asexual reproduction in plants
- Buds
 - Perennating organs
 - Budding
 - Fragmentation
 - Spore formation.

(30 marks)

Question 2

Define Photosynthesis; List and explain five factors that affect the photosynthetic process.

(20 marks)

Question 3

- a. The carrying capacity in an environment is the maximum population size that can be sustained over a relatively long period of time, by that environment; Suggest reasons why it will be difficult for the world to reach its carrying capacity.
- b. Define population density and briefly explain the 3 ways of estimating population density.

(20 marks)

Question 4

- a. Distinguish between Epigeal and hypogeal germinations
- b. Explain the three environmental conditions necessary for seed germinations

(20 marks)

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