



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science

DEPARTMENT OF BIOLOGICAL SCIENCES

2024_2 EXAMINATION

COURSE CODE: BIO 307

COURSE TITLE: EVOLUTION

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instructions: Attempt question number One (1) and any other TWO (2) questions. Question number one (1) carries (30) marks, while the other questions carry (20) marks each.

1. (a) Discuss in details Variation (15mks)
(b) Explain in details Pleiotropism (7mks)
(c) Write succinctly on the contribution of Charles Darwin and Alfred Russel Wallace in the development of evolution (8mks)
2. (a) Write on genetic polymorphism (8mks)
(b) Succinctly explain Genetic Recombination (12mks)
3. (a) Write short notes on Sexual Reproduction in Insects (12mks)
(b) Write on the processes of Genetic structure (8mks)
4. (a) Write short notes on Mechanism in Balancing Selection (10mks)
(b) Discuss some of the harmful mutations (10mks)
5. (a) Succinctly write on polyploidy in animals (10mks)
(b) Explain the concept of Geographical isolation (7mks)
(c) What is reproductive isolation? (3mks)