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National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science Department of Pure and Applied Sciences 2021_2 EXAMINATION

COURSE CODE: BIO307 COURSE TITLE: EVOLUTION CREDIT UNIT: 2 TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

- 1(a) Highlight main features of biological naming 4marks
- (b) Give a concise explanation on Horizontal gene transfer (4marks)
- (c) The death of zygote and its non- viability of hybrids can affect post zygotic isolation. Discuss. **7Marks**
- (d) Gene flow is a form of evolution. Discuss 10 Marks
- 2(a) Highlight the impact of beneficial mutation. 5marks
- (b) Give a concise description of the mechanism of mutation (10marks)
- 3(a) Are mutation harmful? Explain (7marks)
- (b) The proportion of all copies of a gene that is made up of a particular gene variant is called genetic frequency. Explain (8marks)
- 4(a) Enumerate any six (6) sources of uncertainty that can contribute to Random extinction (**6marks**)
- (b) Explain the genesis of population genetics (9marks)
- 5(a) Principles and theories have argued that certain conditions might hinder evolution. Enumerate these conditions (**6marks**)
- (b) Natural selection is a process of population genetics. Discuss (9marks)