



NATIONAL OPEN UNIVERSITY OF NIGERIA
91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF EDUCATION
2025_1 EXAMINATION

COURSE CODE ; SED 321

COURSE TITLE: Biology For Integrated Science III

CREDIT UNIT: 2

TIME ALLOWED : 2HOURS

INSTRUCTION : Attempt question 1 and any other 2 questions

Question 1 is compulsory and carries 30 marks while the other 2 questions carry 20 marks each

1(a) Explain Mendel's First Law 10MARKS
(b) Describe the following terms with appropriate illustrations MARKS
i Allele ii Dominant iii Recessive iv Homozygous v. Heterozygous 20 MARKS

2(a) Explain intraspecific competition in population. 10 MARKS
(b) **Discuss any** two ways by which intra-specific competition occurs giving specific examples 10 MARKS

3(a) Explain the ways in which human social system interact with the ecosystem. 10 MARKS
(b) Highlight and describe the ways the problems of human interaction with the environment can be solved. 10 MARKS

4(a) Explain what is meant by survivor curve. 10 MARKS
(b) i. Make and explain with examples a clear graphical illustration of survivors versus Age. 5MARKS
ii. **What are the uses of a survivorship curve?** 5 MARKSS