



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE
2024 1 EXAMINATION

COURSE CODE: EHS308

COURSE TITLE: ENVIRONMENTAL BIOTECHNOLOGY

COURSE UNITS: 2 CREDIT UNITS

TIME ALLOWED: 1 ½ HOURS

TOTAL SCORE: 70 MARKS

INSTRUCTION: ANSWER ALL QUESTIONS

- 1 (a) Define the term "*Genetic Engineering*" (5 Marks)
(b) Describe two (2) methods of carrying out genetic engineering (10 Marks)
(c) Discuss the concept of *Nanotechnology* (5 Marks)
- 2 (a) Write a short note on the application of biotechnology to remediation of contaminated sites (10 Marks)
(b) Discuss the importance of genetic engineering drug in the treatment of resistant disease (10 Marks)
(c) Describe the process of biofiltration (5 Marks)
- 3 (a) Define the term "*Bioremediation*" (5 Marks)
(b) Discuss the remediation of heavy metal contaminated land (10 Marks)
(c) Highlight the ethical and moral concerns involved in biotechnology (10 Marks)