



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi – Abuja**  
**FACULTY OF HEALTH SCIENCES**  
**2023\_2 EXAMINATIONS**

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**Course Code: EHS 308**  
**Course Title: Environmental Biotechnology**  
**Course Unit: 3 Credit Units**  
**Time Allowed: 2 Hours**  
**Total Score: 70 Marks**

**ANSWER ALL**

- Q1 (a) What is Traditional biotechnology? **5 marks**  
(b) Define Modern biotechnology **2 marks**  
(c) List five (5) contributions of biotechnology to human development **5 marks**  
(d) Mention three (3) Institutions that play vital roles in Biotechnological Development in Nigeria **3 marks**
- Q2 (a) Highlight eleven (11) preventive methods involved in taking precautionary measures to prevent pathogens and pollutants reaching the body fluids. **11 marks**  
(b) List the ten (10) common microbes involved in bio-augmentation **5 marks**
- Q3 (a) Mention seven (7) major moral and ethical concerns expressed about biotechnology **14 marks**  
(b) Enumerate five classes of Biotechnology using Application-based approach **5 marks**
- Q4 Define the following (2 marks each)
- i. Bio-power
  - ii. Bio-energy
  - iii. Bioremediation
  - iv. Biotechnology
  - v. Genetic Engineering
  - vi. Bioinformatics
  - vii. Nanotechnology
  - viii. Cell Therapy
  - ix. Biopreservation
  - x. agro-remediation
- 20 marks**