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## NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA FACULTY OF HEALTH SCIENCES DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE 2023\_1 POP EXAMINATION

**COURSE CODE: EHS 308** 

COURSE TITLE: ENVIRONMENTAL BIOTECHNOLOGY

**COURSE UNIT: 3** 

TIME ALLOWED: 2 HOURS TOTAL SCORE: 70 MARKS

INSTRUCTION: ANSWER ALL THE QUESTIONS

1. (a) Define the following

• Environmental Biotechnology 2 marks

Genetic engineeringBioremediation2 marks2 marks

(b) Differentiate between ancient and modern biotechnology 5 marks

(c) List five (5) importance of biotechnology 5 marks

TOTAL = 16 marks

- 2. Explain the following terms
  - Red Biotechnology 5 marks
  - Green biotechnology 5 marks
  - White Biotechnology 5 marks
  - Fermentation 3 marks

TOTAL = 18 marks

- 3. (a) List the three (3) methods of genetic engineering 3 marks
- (b) List ten (10) the standard methods to prevent infection and injuries **10 marks** (c)List five (5) crops produced by genetic engineering **5 marks**

TOTAL = 18 marks

- 4 (a) Highlight six (6) advantages of biotechnology to health care delivery 12 marks
  - (b) Outline six (6) advantages of botano-remediation 6 marks

TOTAL = 18 marks