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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES 2023\_1 POP EXAMINATION...

PROGRAMME: AGRICULTURAL EXTENSION AND MANAGEMENT COURSE CODE: AEA510 COURSE TITLE: ENVIRONMENTAL ECONOMICS CREDIT UNIT: 3 TOTAL SCORE: 70 MARKS TIME ALLOWED: 3 HOURS INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS ONLY

1a. What is environmental economics and why is the study important in economic and national development? (10marks)
b. Explain the following economic concepts
i. Utility (1mark)
ii. Limited availability (Scarcity) (2<sup>1</sup>/<sub>2</sub>marks)

iii. Choice (**1mark**)

iv Opportunity Cost (1mark)

- v. Efficiency (1mark)
- vi. Social institutions (1mark)

2a. Explain the meaning of ecosystem and outline the two main types  $(5^{1}/_{2} \text{ marks})$ .

b. Discuss the meaning and importance of biotic and abiotic components of the environment (12marks)

3a. Suggest the meaning of production and explain why the major resources used in agricultural production are termed free and economic resources?  $(12^{1}/_{2}marks)$  b. Outline five (5) properties of Isoquants (5marks).

4ai. State four (4) assumptions of production function (4marks).

ii. State **two** (2) reasons why the law of diminishing return is important in agricultural decision-making process (2marks).

iii. Give **four** (4) reasons why you consider the concept of resources productivity analysis is important in agriculture (4marks)

b. Suggest what happens in the rational stage of production in a production function  $(7^{1}/_{2}marks)$ 

5a. Enumerate eight (8) conditions that are necessary for maximum efficiency to be attained (12marks)

b. Explain using four (4) instances the implications of producing output at minimum cost (4marks)

c. What are the implications of attaining social efficiency  $(1^{1}/_{2} \text{ marks})$ 

6a. Enumerate seven (7) reasons why it is important to achieve efficiency in agricultural production  $(10^{1}/_{2} \text{ marks})$  b. State seven (7) factors that are likely to affect land availability and use (7marks)