

2528/105
2922/105
HUMAN ECOLOGY AND
ECONOMICS
June/July 2018
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

MODULE I

HUMAN ECOLOGY AND ECONOMICS

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet;

A non-programmable scientific calculator.

This paper consists of TWO sections; A and B.

Answer ALL the questions in section A and any THREE questions from section B in the answer booklet provided.

Each question in section A carries 4 marks while each question in section B carries 20 marks.

Maximum marks for each paper of a question are as shown.

Candidates should answer the questions in English.

This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (40 marks)

Answer **ALL** the questions in this section.

1. Name **four** types of families in the modern society. (4 marks)
2. Differentiate between traditional and modern social values in Kenya. (4 marks)
3. State **four** factors which determine human behaviour. (4 marks)
4. Name **four** types of displacement in the society. (4 marks)
5. Distinguish between the stigma of abomination of the body and the stigma of blemishes of character. (4 marks)
6. Explain the difference between micro-economic theory and macroeconomic theory. (4 marks)
7. Identify **four** ways of determining the price of a commodity. (4 marks)
8. Name the form of utility derived from each of the production activity shown in table I. (4 marks)

Table I

Productivity activity	Form of utility
1. Changing raw materials into finished goods	
2. Sale of goods and services	
3. Storage of goods until they are demanded	
4. Transportation of goods to the consumer	

9. State any **four** importance of division of labour to an organization. (4 marks)
10. Distinguish between Price Elasticity of Demand and Income Elasticity of Demand. (4 marks)

* Micro-economic → these are goods and services needed in a small quantity to meet consumer demand.

* Macro-economic → these are goods and services needed in a large quantity.

SECTION B (60 marks)

Answer any THREE questions from this section.

11. (a) Explain five social values that enhance creation of a just society. (10 marks)
- (b) Describe five negative effects of settlement schemes on the environment. (10 marks)
12. (a) Describe any five roles of religion in influencing morality in society. (10 marks)
- (b) Explain any five dimensions of social stratification in society. (10 marks)
13. (a) Explain the relationship between scarcity, choice, and opportunity cost in decision making. (9 marks)
- (b) (i) State the law of diminishing marginal utility. (2 marks)
- (ii) Table II shows the total and marginal utility of a consumer. Complete the table for marginal utility of quantity X. (5 marks)

Table II

Quantity X Consumed per week	Total utility Units per week	Marginal utility
0	0	
1	20	
2	50	
3	60	
4	62	
5	60	

- (iii) Explain the operation of the law of diminishing marginal utility. (4 marks)

14. (a) Define the following terms as used in economics:
- (i) demand; (2 marks)
 - (ii) supply. (2 marks)
- (b) (i) Using a graph, describe the first law of demand and supply. (7 marks)
- (ii) State **three** effects of decreasing supply of a commodity while demand remains constant. (3 marks)
- (c) Explain any **three** factors that may influence demand for a product other than the price of related goods. (6 marks)
15. (a) (i) Distinguish between direct tax and indirect tax. (4 marks)
- (ii) Explain any **three** functions of taxation to an economy. (6 marks)
- (b) Explain the personality structures of the mind. (10 marks)

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