

- (c) Describe how ethics is influenced by religion. (10 marks)
13. (a) Define the following terms: (2 marks)
- (i) biotic; (2 marks)
- (ii) dominance. (2 marks)
- (b) Explain any two environmental destructions caused by Internally Displaced Persons (IDPs). (4 marks)
- (c) Distinguish between Weber's legal authority and charismatic authority. (12 marks)
14. (a) Assume that the economy is made up of two groups of people i.e. households who are consumers and firms who are producers. Illustrate in a model form, the relationship between the above groups showing a circular flow of income. (8 marks)
- (b) State any five factors affecting the supply of tomatoes in an urban market. (5 marks)
- (c) Distinguish between the Memorandum of Association and Articles of Association. (4 marks)
- (d) Classify the levels of production. (3 marks)
15. (a) Explain how the following factors influence the location of an industry: (4 marks)
- (i) raw materials; (2 marks)
- (ii) market; (2 marks)
- (c) Infrastructure. (12 marks)
- (b) Explain four ways of determining the price of a commodity. (8 marks)

2528/105  
 HUMAN ECOLOGY AND ECONOMICS  
 Oct/Nov. 2010  
 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;
- Non-programmable scientific calculator.

This paper consists of **TWO** sections: **A** and **B**.  
 Answer **ALL** questions in section **A** and any **THREE** questions from section **B**.  
 Each question in section **A** carries **4** marks while each question in section **B** carries **20** marks.  
 Maximum marks for each part of a question are indicated.

This paper consists of 6 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 questions in this section.

1. Explain the following concepts:
- (a) scarcity (2 marks)
- (b) opportunity cost (2 marks)

2. Table I shows a demand schedule for a grade of eggs

Table I

Price (Sh. per dozen)	Quantity demanded (Dozens)
200	100
175	200
150	300
125	400
100	500
75	600
50	700

- (a) Use the above schedule to draw a demand curve. (2 marks)
- (b) From the demand curve, determine the price if the quantity demanded was 250 dozens. (2 marks)

3. Table II represents variations in prices per given weight of commodities in the year 2008 and 2009.

Table II

Commodity	Base Year 2008		Current Year 2009	
	Price	Weight	Price	Weight
Cornmeal	2	2	64	20
Bread	40	3	60	3
Sugar	10	1	12	1
Salt	20	2	40	2
Rice	48	2	60	2

- (a) Calculate consumer price index for 2009. (3 marks)
- (b) Interpret the answer. (1 mark)

4. Identify any four factors of production. (4 marks)
5. Define the following terms:
- (a) religion (2 marks)
- (b) spirituality. (2 marks)
6. State any four functions of social work. (4 marks)
7. In relation to symbolic interaction theory, explain the following concepts:
- (a) symbol; (2 marks)
- (b) object. (2 marks)
8. State any four roles of religion in social life. (4 marks)
9. With the use of a diagram, illustrate Maslow's theory of motivation. (4 marks)
10. Compare the management of co-operatives and parastatals. (4 marks)

SECTION B (60 marks)

Answer any THREE questions from this section.

11. (a) Explain the Field theory. (5 marks)
- (b) Identify any three methods of management and utilization of natural resources. (3 marks)
- (c) Describe any three family subsystems. (12 marks)
12. (a) Define the term 'ethics'. (2 marks)
- (b) State two roles of the following individuals in a modern society:
- (i) women; (12 marks)
- (ii) men; (12 marks)
- (iii) children; (12 marks)
- (iv) elders. (8 marks)