

2528/105
2922/105
HUMAN ECOLOGY AND
ECONOMICS
June/July 2020
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 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 part of a question are as indicated.

Candidates should answer the questions in English.

This paper consists of 3 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. (a) Identify the effect on supply of each of the following situations:
 - (i) supply of tea when demand for coffee raises; (1 mark)
 - (ii) supply of petrol when the prices of cars fall; (1 mark)
 - (iii) supply of wool when the demand for beef increases. (1 mark)
- (b) State the law of demand. (1 mark)
2. State four strategies a county government may put in place to attract investors. (4 marks)
3. State four benefits of a sole proprietorship form of business organization. (4 marks)
4. Name the type of business organization corresponding to each of the following description:
 - (a) each member has only one vote; (1 mark)
 - (b) the business enjoys perpetual succession; (1 mark)
 - (c) each member may act on behalf of the business; (1 mark)
 - (d) formed by an Act of Parliament. (1 mark)
5. Describe 'isoquant' as applied in production. (4 marks)
6. Explain the two primary dimensions of social stratification in role theory. (4 marks)
7. State four assumptions of the psychoanalytic theory in relation to individual behaviour. (4 marks)
8. Distinguish between the Id and the Ego structures of the mind. (4 marks)
9. With use of labelled diagrams, explain the conflict between mother and father within a parental subsystem. (4 marks)
10. Explain the functional role of each of the following family subsystems:
 - (a) parent-child subsystem; (2 marks)
 - (b) sibling subsystem. (2 marks)

SECTION B (60 marks)

Answer any **THREE** questions from this section.

11. (a) State **six** contributions of the role theory in understanding human behaviour. (6 marks)
- (b) (i) Explain the importance of a social group in shaping the behaviour of an individual. (10 marks)
- (ii) Differentiate between the natural will and rational will relationships. (4 marks)
12. (a) (i) Distinguish between behaviourists and cognitive theorists approaches to human behaviour. (4 marks)
- (ii) Explain **four** assumptions that form the foundation of cognitive development theory. (8 marks)
- (b) Explain the **three** growth stages of formal organizations. (8 marks)
13. (a) Use a diagram to describe a rightward shift in the supply curve. (5 marks)
- (b) Explain **three** factors that can lead to a rightward shift in the supply curve. (6 marks)
- (c) State **five** benefits Kenya enjoys by virtue of being a member of the East African Community (EAC). (5 marks)
- (d) State **four** disadvantages of localization of industries to a country. (4 marks)
14. (a) Explain **four** limitations of using national income statistics as an indicator of the standard of living. (8 marks)
- (b) (i) Distinguish between multiplier and accelerator as used in national income. (4 marks)
- (ii) Explain **four** factors which limit the application of multiplier as a tool for economic measurement in developing countries. (8 marks)
15. (a) (i) Define the term 'money'. (2 marks)
- (ii) Explain **four** functions of money within an economy. (8 marks)
- (b) (i) Define external economies of scale as used in production. (2 marks)
- (ii) Explain **four** external factors that lead to an increase in the external economies of scale. (8 marks)

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