

2528/205

2922/205

ENVIRONMENTAL RESOURCE MANAGEMENT AND ECONOMICS

June/July 2019

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

MODULE II

ENVIRONMENTAL RESOURCE MANAGEMENT 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 shown.

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 the questions in this section.

1. Distinguish between management and conservation as used in energy utilization. (4 marks)
2. Explain any **four** measures which the Government of Kenya has put in place to manage and conserve energy. (4 marks)
3. Explain any **four** poverty reduction measures which the Government of Kenya is pursuing so as to fulfil the sustainable development goals. (4 marks)
4. (a) Define the term 'restoration ecology'. (2 marks)
(b) State any **two** methods that can be used to restore a dump site. (2 marks)
5. Classify the sources of energy: Solar; Waves; Petroleum; Natural gas as either renewable or non-renewable. (4 marks)
6. Distinguish between economic growth and economic development. (4 marks)
7. State any **four** institutional weaknesses that limit planning in developing countries. (4 marks)
8. State any **four** factors that hinder development in Kenya. (4 marks)
9. Name **four** trading blocks in Africa. (4 marks)
10. Explain any **two** positive implications of processing of mineral resource to a community. (4 marks)

SECTION B (60 marks)

Answer any THREE questions from this section.

11. (a) (i) Define 'vicious circle of poverty'. (2 marks)
(ii) Use the factors: lack of income; low productivity; low savings; lack of capital to illustrate the vicious circle of poverty from the demand perspective. (8 marks)
- (b) Explain any **five** roles of entrepreneurship and technology as a means of achieving rapid economic development in a country. (10 marks)



12. (a) (i) Define the term 'sustainable agriculture'. (2 marks)
- (ii) Explain the role of agriculture in the economic development of Kenya. (10 marks)
- (b) (i) Explain the meaning of 'import substitution'. (2 marks)
- (ii) Explain any three factors that have led many developing countries to abandon import substitution policies. (6 marks)
13. (a) Explain any five measures which the Government of Kenya is engaging in solving emerging problems in urban centres. (10 marks)
- (b) (i) Define the term 'unemployment'. (2 marks)
- (ii) Explain four ways of alleviating unemployment in Kenya. (8 marks)
14. Explain each of the following types of unemployment prevalent in Kenya:
- (a) open involuntary unemployment; (5 marks)
- (b) disguised or hidden unemployment; (5 marks)
- (c) structural unemployment; (5 marks)
- (d) seasonal unemployment. (5 marks)
15. (a) Explain the four levels of economic integration. (8 marks)
- (b) (i) Define the term 'desertification'. (2 marks)
- (ii) Explain any five contributions of human activities on desertification. (10 marks)

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