

2528/205

2922/205

ENVIRONMENTAL RESOURCE MANAGEMENT
AND ECONOMICS

June/July 2018

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 carry 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 pages are printed as indicated and that no questions are missing.

© 2018 The Kenya National Examinations Council

Turn over

SECTION A (40 marks)

Answer ALL questions in this section

1. Name any **four** sources of renewable energy. (4 marks)
2. State **four** measures taken by ^{sun, water, tidal, wind} Kenyan government to conserve energy. (4 marks)
3. List **four** indicators of poverty in Kenya. (4 marks)
4. Name **four** approaches used in resource management. ^{low standards of living, poor infrastructure, env. planning, env. conservation, env. management, env. protection} (4 marks)
5. Explain **four** factors that have made shifting cultivation inappropriate. ^{leads to land degradation, exhaustion of nutrients, soil erosion} (4 marks)
6. List **four** ways of servicing international debt. (4 marks)
7. Distinguish between Human Development Index and Human Poverty Index as measures of economic development. ^{its a parameter used to measure the development of people in the country, parameter for measuring poverty level in the country} (4 marks)
8. State **four** causes of structural unemployment in Kenya. (4 marks)
9. Outline the basic stages of Rostow's Economic growth model. (4 marks)
10. Define the following terms:
 - (a) unemployment: - ^{Process whereby the no of population is higher than job opportunities} (2 marks)
 - (b) development planning: - ^{laying down of development policy for controlling} (2 marks)

SECTION B (60 marks)

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

11. (a) Explain **five** disadvantages of trade restrictions to a country. (10 marks)
 - (b) Explain **five** ways through which rural-urban migration causes unemployment in Kenya. (10 marks)
 12. (a) Explain **five** measures that the Kenyan government can put in place to encourage establishment of industries in rural areas. ^{dev of infrastructure, encourage decentralization of industries, offer incentives and subsidies to decentralized industries} (10 marks)
 - (b) Explain **five** contributions of the 'Jua Kali' sector to the Kenyan economy. (10 marks)
- Handwritten notes for question 12(b):*
 employment
 utilization of resources.
 encourage local industries/development
 govern revenue due to paying of taxes
 produce goods at a relatively low price
 makes use of water through recycling



13. (a) Describe **five** characteristics that classifies Kenya as a developing country. (10 marks)
- (b) Distinguish between Actual economic growth and Potential economic growth. (4 marks)
- (c) Explain **three** ways in which institutional weakness is a limitation of planning in developing countries. (6 marks)
14. (a) Distinguish between management of energy and conservation of energy. (4 marks)
- (b) Explain **five** negative effects of industrialization on the environment. (10 marks)
pollution
- (c) Explain **three** opportunities created by sustainable utilization of wetlands. (6 marks)
*Farming / Agriculture
 rearing animals*
15. (a) Explain **five** benefits of protecting wildlife resource to the Kenyan economy. (10 marks)
*growth of the areas where wildlife resides
 reduction of poaching of wildlife
 coming revenue to government
 wildlife attraction
 employment opp. to the workers*
- (b) Explain **five** ways in which farming would improve living standards of communities living in Arid and Semi Arid areas of Kenya. (10 marks)
*employment
 profit through selling
 reduction of hunger / famine
 growth of business*

THIS IS THE LAST PRINTED PAGE.