

Name _____

Index No. _____

2528/302

ENVIRONMENTAL WASTE
MANAGEMENT, E.I.A AND
ENVIRONMENTAL LAW

November - 2012

Time: 3 hours



Candidate's Signature _____
Date _____

THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY
MODULE III

ENVIRONMENTAL WASTE MANAGEMENT, E.I.A, AND ENVIRONMENTAL LAW

3 hours

INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above.

Write the date of the examination and sign in the spaces provided above.

You should have a Non programmable scientific calculator for this examination.

This paper consists of **TWO** sections, A and B.

Answer **ALL** questions in section A and any **THREE** questions from section B in the spaces 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 indicated.

For Examiner's Use Only

SECTION A

Question	1	2	3	4	5	6	7	8	9	10	TOTAL
Question											
Marks											

SECTION B

Question	11	12	13	14	15	TOTAL	GRAND TOTAL
Question							
Marks							

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This paper consists of 16 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 from this section.

1. Define the following terms as used in waste management:

- (a) waste; (1 mark)
- (b) disposal. (1 mark)

2. List the four ways of managing risks. (4 marks)

3. Explain the initial process of waste water treatment. (4 marks)

4. Explain the initial process of waste water treatment. (4 marks)

5. Explain the following types of environmental monitoring. (2 marks)

(a) baseline monitoring; (2 marks)

(b) impact monitoring. (2 marks)

6. Identify the four risk assessment steps. (4 marks)

7. Name any four sources of environmental law. (4 marks)

8. Name the four approaches of managing waste. (6 marks)

9. Explain the following functions of the National Environmental Management Authority (NEMA). (2 marks)

- (a) land use; (2 marks)

- (b) research; (2 marks)

- (c) drinking; (2 marks)

10. List four principal functions of courts in administration of environmental law. (4 marks)

- (i) pH; (2 marks)

- (ii) dissolved oxygen; (2 marks)

- (iii) turbidity; (2 marks)

- (iv) odour; (2 marks)

- (v) Identify four environmental criminal offences. (4 marks)

11. Answer any THREE questions from this section in the spaces provided after question 15. (6 marks)

- (a) Describe the following methods of solid waste volume reduction: (4 marks)

- (i) incineration; (4 marks)

- (ii) landfills; (4 marks)

- (b) Explain any four importance of waste management. (4 marks)

- (c) Distinguish between criminal liability and civil liability. (4 marks)

12. Answer any THREE questions from this section in the spaces provided after question 15. (6 marks)

- (a) Describe the Kyon Protocol as a tool that is used in legislation controls of atmospheric pollution. (8 marks)

- (b) State any four criteria for establishing measurement of air quality in Kenya. (4 marks)

- (c) Explain any four functions of NEMA in the legislation of noise pollution. (4 marks)

- (d) Explain any four characteristics of hazardous waste. (4 marks)

- (e) Explain any six considerations in choice of a hazardous waste management facility. (12 marks)

- (f) Explain any two hazardous waste disposal regulations in Kenya. (6 marks)

13. (a) Explain any two factors that determine the amount of waste generated from a processing facility. (4 marks)

- (b) Identify any two objectives of: (4 marks)

- (i) waste minimization; (2 marks)

- (ii) waste treatment. (2 marks)

- (c) Explain the importance of determining the following water quality aspects for human drinking: (2 marks)

- (i) pH; (2 marks)

- (ii) dissolved oxygen; (2 marks)

- (iii) turbidity; (2 marks)

- (iv) odour; (2 marks)

25/28/2022
Date: 25/28/2022

Turn over