

Name: \_\_\_\_\_ Index No: \_\_\_\_\_

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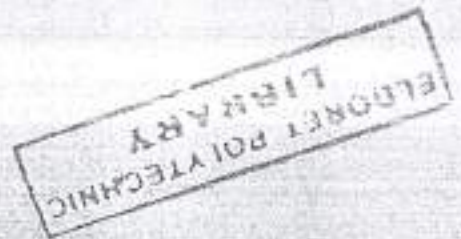
ENVIRONMENTAL LABORATORY  
PRACTICE

Oct./Nov. 2014

Time: 3 hours

Candidate's Signature: \_\_\_\_\_

Date: \_\_\_\_\_



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY  
MODULE I

ENVIRONMENTAL LABORATORY PRACTICE

3 hours

INSTRUCTIONS TO CANDIDATES

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

Sign and write the date of the examination 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 the questions in section A and any THREE questions from section B in the spaces provided in this question paper.

Each question in section A carries 4 marks while each question in section B carries 20 marks.

Candidates should answer the questions in English.

For Examiner's Use Only

SECTION A

Question	1	2	3	4	5	6	7	8	9	10	Total
Candidate's score											

SECTION B

Question	11	12	13	14	15	Total	Grand Total
Candidate's score							

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 in this section in the spaces provided.

1. Name four constituents used to make hard glass.

(4 marks)

2. State four factors which make the use of plastic wares preferable in the laboratory.

(4 marks)

3. Explain two disadvantages of wooden laboratory bench tops.

(4 marks)

4. List any four causes of electrical fires in the laboratory.

(4 marks)



9. Name any four laboratory services that can be recommended during a construction of a new laboratory in a learning institution. (4 marks)

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10. A laboratory staff is suspected to have swallowed a corrosive poison. Identify four symptoms of this person. (4 marks)

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SECTION B (60 marks)

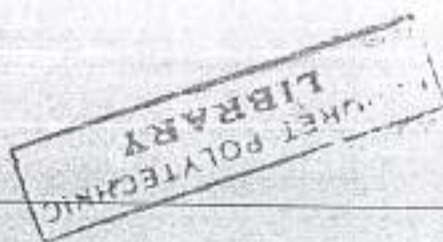
Answer any **THREE** questions from this section in the spaces provided after question 15.

11. (a) Explain the procedure followed when administering First Aid to an injured person. (10 marks)
- (b) Explain any five ways of recognizing shock in victims. (10 marks)
12. (a) Define the term cryogenic substance as used in the laboratory. (2 marks)
- (b) Explain the hazards associated with direct personal exposure to cryogenic fluids. (18 marks)
13. (a) Explain four advantages of concrete laboratory bench tops. (8 marks)
- (b) With the aid of a diagram, describe the features of a laboratory layout. (12 marks)

- (a) With the aid of a well labelled diagram, describe the working principle of an ordinary camera. (10 marks)
- (b) Explain how a photographic film is processed. (10 marks)

15. Describe breeding procedure of a mice under the following:

- (a) oestrogen cycle; (7 marks)
- (b) mating age; (6 marks)
- (c) weaning. (7 marks)



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