2528/104 2922/104 ENVIRONMENTAL LABORATORY PRACTICE June/July 2018 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL DIPLOMA IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY MODULE I

ENVIRONMENTAL LABORATORY PRACTICE

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 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.

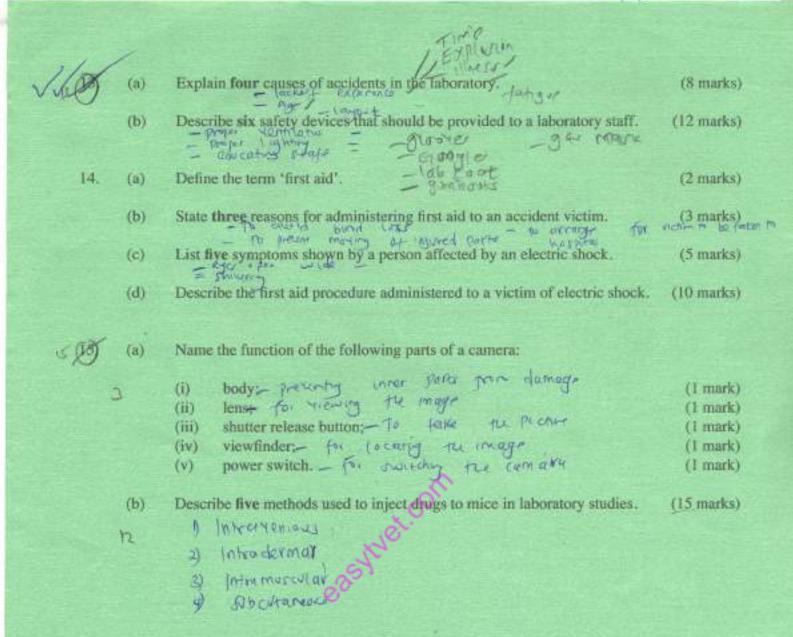
This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (40 marks)

		Answer ALL the questions in this section.	illo a li
0.	State any four faults on electric plugs that require regular checking in order to avoid accide		
0			(4 marks)
WZ.	Give	four advantages of using glazed files on laboratory floors.	(4 marks)
113	State four reasons for building a new laboratory block close to existing laborator		
	learn	ing institution.	(4 marks)
UK	Name four utilities that should be incorporated when renovating a building into a labora		
		project Mennication	(4 marks)
J.S.	List	four glassware used for measuring liquids in a laboratory.	(4 marks)
1/0	State any four methods of disinfecting surface water used in laboratories.		
Us.	Describe the first aid administered to a student whose skin was accidentally exposed to lice		
	nitro	gen in the laboratory pemero Clany of the worker	(4 marks)
18	Disti	nguish between hard glass and soft glass used in glass blowing.	(4 marks)
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W0.	State four ideal conditions for storing chemicals sensitive to sunlight		(4 marks)
40	List any four classes of fixatives based on their mechanism of action.		(4 marks)
SECTION B (60 marks)			
Answer any THREE questions from this section.			
11,	16)	Draw a labelled diagram of a Bunsen burner/	(6 marks)
	(b)	Outline the process of cleaning the jet of a Bunsen burner.	(8 marks)
	155	Explain the three requirements necessary for a fire to burn.	(6 marks)
12	NA	Explain three types of hazards caused by leakage of gases in the laboratory.	(6 marks)
	V(16)	Describe three functions of adequate ventilation in a science laboratory.	(6 marks)
	V/(c)	Explain any four causes of vibrations in the balance room.	(8 marks)

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