2404/306 2407/306 2411/306 LABORATORY PRACTICE AND MANAGEMENT Oct./Nov. 2016

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN APPLIED BIOLOGY DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY DIPLOMA IN ANALYTICAL CHEMISTRY

LABORATORY PRACTICE AND MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

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 indicated.

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.

100			
X	(a) Explain how demineralization is achieved by the regeneration deionizer.	(2 marks)	
V	Principle of detonization; when morely is proceed their a change	verin mel	
	(b) How is the resin of the above deionizer recharged?	Survey of the	
		(2 marks)	
	Describe the four classes of fire risks.		
2.	Describe the four classes of fire risks	(4 marks)	
-	2 VOVALUE VALUE DI VIOLO VA IAI VIII VALUE.	(mans)	
2	D 0 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1	
3.	3. By use of a diagram, illustrate the standard warning signs that appear on the label of		
	following chemicals:		
	(a) flammables;	(1 mark)	
	(b) oxidizing;		
		(1 mark)	
	(c) corrosive;	(1 mark)	
	(d) toxic.	(1 mark	
4.	Outline the laboratory inspection and maintenance of the safety apparatus in the laboratory.		
	out and another in the same and an are sales apparatus in the	(4 marks)	
		(4 mars)	
961			
5.	Differentiate between anaesthesia and euthanasia.	(4 marks)	
6.	State four darkroom precautions.	(4 marks)	
		()	
7	Euplain have a Tailone can be made in a close blassic a leb autom	(4 1)	
7.	Explain how a T-piece can be made in a glass blowing laboratory.	(4 marks)	
	Id. sc.		
8.	(a) State two uses of cryogenics.— Arthure	(2 marks)	
	(a) State two uses of cryogenics—ferhiters. (b) What are dewar vessels? (c) State two uses of cryogenics—ferhiters.		
	(b) What are dewar vessels?	(2 marks)	
	(b) What are dewar vessers:	(Z marks)	
0	6	(4 1)	
9.	State the steps and the purpose of the control function in management.	(4 marks)	
10.	Explain any two factors that management should consider during performance appraisal.		
		(4 marks)	
		(

SECTION B (60 marks)

Answer any THREE questions from this section.

11.	(a)	Discuss the sitting and orientation of a balance room	(10 marks)
	(b)	Describe the following materials used for laboratory floor surfaces:	
		(i) wood; , (ii) terrazzo.	(5 marks) (5 marks)
(12.)	(a)	Describe protection against the various types of radiation hazards.	(6 marks)
	(b)	Explain the proper storage and disposal of inflammable liquids.	(14 marks)
13.	Expla	ain the functions of each of the following items in film projection:	
A	(a) (b) (c)	projector gate; intermittent; film loops.	(8 marks) (7 marks) (5 marks)
(14.)	Outlin	ne Henri Fayol's principles of effective management.	(20 marks)
15.	(a)	Describe the following documents used in purchasing:	
	4.	(i) order form; (ii) invoice.	(4 marks) (5 marks)
	(b)	Describe the three styles of leadership.	(11 marks)
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	- C	any of country - Supordination Interest when such a direction of supply - Authority & Rose Equity Specialists Specialists.	mlh.
	-	Salar chain	

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