Name:	Index No:/
2404/306	
2407/306	
2411/306	Candidate's Signature:
LABORATORY PRACTICE	
AND MANAGEMENT	
Oct./Nov. 2014	Date:



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

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 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 SCORE
Candidate's Score											

SECTION B

Time: 3 hours

Question	11	12	13	14	15	TOTAL SCORE	Grand	
Candidate's Score							Total	

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 the questions in this section in the spaces provided.

		MESSES.				
Define	e the following tern	ns:				(2 m
(i)	percentage solution	on;				
			~			
			X,O			
			90			
(ii)	normal solution.	685				
				W		
Calcul	late the volume of	0.1M NaOl	I required to	neutralize 2	0 cm3 of 0.5N	HCL.
						(2 m
	(ii)	(ii) percentage solution.	(ii) normal solution.	(ii) percentage solution; (ii) normal solution.	(ii) percentage solution; (iii) normal solution.	(i) percentage solution;

Describe first aid treatment of a victim exposed to high dose of harmful radiation.							
(a)	State the use of each of the following in a glass blowing laboratory: (i) oven;	(1 mark					
	(ii) flaming tool.	(1 mark					
(b)	Explain why aquaregia should never be used to clean platinum ware.	(2 marks					
	60 ST						
Outli	ine the steps followed in management by objectives.	(4 marks					
100							

6.	Differentiate between incised and lacerated wounds.	(4 marks)
7.	List any four uses of cryogenic fluids.	(4 marks)
8.	Outline how stained platinum crucibles are washed.	(4 marks)
	- XON	
	- Style	
9.	State any four precautions to be taken while preparing a developer.	(4 marks)

10.	Outl	ine any four factors considered when selecting materials for a laboratory bench	ı. (4 marks)
		SECTION B (60 marks)	
	Answ	er any THREE questions from this section in the spaces provided after question	n 15.
11.	(a)	State any three functions of central store.	(3 marks)
	(b)	Explain three methods of cleaning glassware in the laboratory.	(5 marks)
	(c)	Describe a fume cupboard.	(8 marks)
	(d)	Describe the first aid treatment of acid splash in the eye.	(4 marks)
12.	(a)	Explain the major causes of industrial disputes.	(15 marks)
	(b)	Outline any five benefits of motivation in an organisation.	(5 marks)
13.	(a)	Describe the method of making a teat pipette.	(10 marks)
	(b)	Describe the conditions for use and maintenance of liquid air plant in a glass laboratory.	blowing (10 marks)

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14.	(a)	Describe the composition of developing solutions in photography.	(12 marks
	(b)	State two advantages of a technical camera over single lens reflex camera.	(4 marks
	(c)	Outline procedure of switching off film projector.	(4 marks
15.	(a)	State four reasons why managers delegate authority to subordinates.	(4 marks)
	(b)	Compare and contrast strategic and operating decisions in management.	(4 marks)
	(c)	Describe three types of skills important for effective management.	(8 marks)
	(d)	Outline four benefits of planning.	(4 marks)
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