2404/306 2407/306 2411/306 LABORATORY PRACTICE AND MANAGEMENT Oct/Nov. 2011 Time: 3 hours



2. 117.002

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

You should have the following for this examination:

Answer booklet; Mathematical tables/scientific calculator.

This paper consists of TWO sections; A and B. Answer ALL questions in section A and any THREE questions from section B. 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.

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.

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Turn over

height of both stall? Boromto ?

SECTION A (40 marks)

1.	Stat	any four factors to be considered when deciding the space allowance bet	ween benches in	
	9	- open a drower - The twee of trolleg.	(4 marks)	
2.	4 Exp	lain any four ways of sourcing personnel by an organization.	(4 marks)	
3.	Dist App	Distinguish between the System Management Approach and Contingency Management Approach theories.		
	1.2.5		(40marks)	
4,	(a)	Define the following terms;		
			5	
		(i) molarity; Main mula in a tile of a sure Volume in the (ii) normal solution.	(10mark) (10mark)	
	(b)	Calculate the mass of Land II Nitrate Dr. (NO.)		
	1000 ppm of Lead II ions (Pb ²⁺) in 500cm ³ volumetric flask.			
		Pb = 207, N = 14, O = 16.	(2 marks)	
5.	(a)	Classify the following chemicals based on their storage chemicals		
		S and the storage characteristics;		
	1	(i) Silver Nitrate; _ Georgia raisie	(I mark)	
	1	(ii) Picric acid Latimatic EXPLOSIVE	(1 mark)	
	7(b)	Describe the storage of the chemicals in 5(a) above.	(2 marks)	
6.	(a)	Define the term "Aqua regia". Mg. C20L	(1 mark)	
	(b)	Describe the cleaning of new sintered glass discs.	(3 marks)	
7.	(a)	Draw a diagram to illustrate an apparatus used to pick up spilled mercury		
	1	_ · · · · · · · · · · · · · · · · · · ·	(2 marks)	
	(h)	Describent	(= ((((((((((((((((((((((((((((((((((((
	(0)	Describe the proper disposal of sodium oxide.	(2 marks)	
8.	(a) 7-	Differentiate between arterial bleeding and venous bleeding.	(2 marks)	
	(b) Z	Distinguish between an emetic and a demulcent.	(2 marks)	
		Induces Statte Prim		
		A B MARTIN S ROB-		
2404	and	when a production		
2407/306		The second se	D ² F	
2411/.	306	2		

2. 11:20.12 State the functions of the following glass blowing tools: carbon piate; -(a) (b) flare tools; annealing over, - converting of a glass produce by hereing (c) (4 marks) lathe machine. -(d) (4 marks) State any four disadvantages of central stores. 10. - rilat at beventuris - ... Proceriumis. real Elizabeth - from all of preserve when service a bis organisation 240 Halv Strag SECTION B (60 marks) 8.24 Answer any THREE questions from this section. Warristan" a. Explain the precautions undertaken when handling the following chemicals: inflammable chemicals; tree ve builded (7 marks) (a) - Harel Jacken Are had their (13 marks) 48 - AN James (8 marks) strong acids: (b) 5-24112 i crass Explain the installation of the following equipment 12. mercury fortin barometer; VE W -(a) laboratory still. 2.5 m - yearsh when (12 marks) (b) State the advantages of using wood as a material for construction of animal cages. 13 (a) - change annabelize and more again - longhating (4 marks) Kist miner corrected by champelies him when Outline the steps involved in the Holger - Nielsen (Back - pressure lift) Artificial , (b) (16 marks) the writiger Respiration method. +> List any five applications of cryogenics. - we have such the convert L'ben 114. Junile (5 marks) enters deman old the hands (7 marks) Land Explain the composition techniques in photography. (b) (i) the llast Contrast between the view finder camera and the reflex camera. (ii) view finde- -(8 marks) CryDgemics (7 marks) State the objectives of a trade union. 15. (a) (13 marks) Explain the process of Collective Bargaining. (b) lathe Madine Stores 7. With Out 2404/306 3 2407/306 2411/306