



MURANG'A UNIVERSITY COLLEGE
(A Constituent College of Jomo Kenyatta University College of Technology)

SCHOOL OF PURE AND APPLIED SCIENCE

AS/BIO/14D

LABORATORY PRACTICE

UNIT CODE ASB/ASC 1206

END OF TERM TWO - APRIL TIME: 2Hours

DATE: /11/2014

Answer **ALL** questions in both sections

SECTION A

1. Outline the preparation of 500cm³ 100ppm Calcium Carbonate with respect to Calcium

Ca=40, C=12, O=16

(4marks)

2. Outline the preparation of 2M H₂SO₄ using the following information %purity =98,

S.G =1.42, N=14, O=16, H=1

(4marks)

3a). Define the following terms

i) Emetic

ii) Demulcent

4. Differentiate the two types of lighting systems in the lab.

(2 marks)

5. Explain the main three ventilations systems in the lab

(6 marks)

6. State the importance of laboratory Safety (4 marks)

7. State FOUR factors considered when selecting materials for laboratory floor. (4 marks)

8. Differentiate between a burn and a scald (4marks)

9. Outline the preparation of 250cm³ of 0.20M Sodium Carbonate

Na=23, C=12, O=16 (4marks)

10. State FOUR importance of first aid (4marks)

SECTION B

11(a) Describe the main **FOUR** parts of first aid (6marks)

(b) Describe **FOUR** main safety features found in a chemical laboratory (8marks)

(c) State four types of fires, their causes and their methods of distinguishing (6 marks)

12 .Describe the steps involved in carrying out artificial respiration (6 marks)

(b) Explain first aid treatment of the following

(i) a splash of acid on the eye (4 marks)

(ii) Phosphorous poisoning (4 marks)

c) Describe the following methods of disposals

i) Incineration

ii) Maceration

iii) Detoxification (6 marks)