



**MURANG'A UNIVERSITY COLLEGE**  
*(A constituent college of Jomo Kenyatta University of Agriculture and Technology)*  
**SCHOOL OF PURE AND APPLIED SCIENCES**

UNIVERSITY EXAMINATIONS 2015/2016 ACADEMIC YEAR  
END OF TERM EXAMINATION  
AS/SLT/13C

**UNIT CODE: ASLT 0205: LABORATORY PRACTICE**

**END OF TERM 2 2015**

**DATE: 19<sup>TH</sup> NOVEMBER 2015**

**TIME: 2 HOURS**

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**ANSWER ALL QUESTIONS IN BOTH SECTIONS**

**SECTION A (40marks)**

1. Explain the functions of the following devices  
i) Pocket dosimeter    ii) Film badge (4marks)
  
2. List **FOUR** applications of photography (4marks)
  
- 3 (a). Define the term first aid (1mark)  
b) State **THREE** causes of electrical hazards (3marks)
  
- 4 a) Define the term devitrification (1marks)  
b) State the causes of 4(a) above (4marks)
  
5. Explain the main **THREE** ventilations systems in the lab. (6 marks)

6. State the importance of laboratory Safety (4 marks)
7. Explain FOUR types of wounds (4marks)
8. Differentiate between the **TWO** construction patterns of laboratory benches (4marks)
9. State FOUR classes of fires and their causes (4 marks)
10. Explain the cutting of a less than 10mm glass rod (4marks)

**SECTION B (30 marks)**

- 11 (a) Draw and explain the working of a single reflex lens camera (8 marks)
- (b) Describe **FOUR** main safety features found in a chemical laboratory (4marks)
- (c) Describe the four classes of fires (4 marks)
- (d) State **FOUR** advantages of single reflex camera (4 marks)
- 12 .Draw a cross section of a film and explain the functions of its parts (6 marks)
- (b) Differentiate the **TWO** types of printing methods in photography. (4marks)
- (c) Explain the **FOUR** parts of First aids (10marks)
- 13 a. Describe the processes of developing a black and white film (10 marks)
- b) Describe the cleaning of plastic wares in the lab. (4 marks)
- c) Explain the making of a T- joint using a glass tube in a glass blowing laboratory. (4marks)
- d. Explain **FOUR** good laboratory habits (4 marks)