



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

#### (A Constituent College of Jkuat)

### Faculty of Applied & Health Sciences

#### DEPARTMENT OF PURE AND APPLIED SCIENCES

#### **CERTIFICATE IN SCIENCE LABORATORY TECHNOLOGY (CSLT 2010)**

# END OF SEMESTER EXAMINATION

# LABORATORY PRACTICE

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates: You should have the following for this examination - Answer booklet Answer question ONE (COMPULSORY) and choose any other TWO questions This paper consist of TWO printed pages

#### **QUESTION ONE**

Explain the following:

	<ul><li>Explain the following:</li><li>a) Methods or ways through which poisons can enter into a worker in the laboratory</li></ul>			
uj	memous	(8 marks)		
b)	State any	FOUR hazards related to use of cryogenic fluid	(4 marks)	
c)	i)	the characteristic and use of: Soft glass Hard glass		
1)			(4 marks)	
d)	Describe i) ii)	the care and maintenance of the following laboratory equipments. Microscope Balance	(4 marks) (4 marks)	
e)	Hazards	associated with cryogenic fluids	(6 marks)	
QUESTION TWO				
a)	Describe	the safety precaution to be followed when working in a laboratory	(14 marks)	
b)	Explain	safety precautions when using cryogenic fluid	(6 marks)	
QUESTION THREE				
a)	Name an	d explain the basic steps in glass ware manufacture	(8 marks)	
b)	Explain the following terms as used in glass blowing:			
	(i) A	nnealing	(2 ½ marks)	
	(ii) T	empering	(2 ½ marks)	
	(iii) D	Devitrification	(2 marks)	
	(iv) E	Bloom	(2 marks)	
c)	Explain ]	how a capillary tube can be made in a laboratory using a glass tubing	(3 marks)	
QUESTION FOUR				
a)	Draw an	d explain the working principle of single lens reflex camera	(14 marks)	
b)	Explain	the care and maintenance of cameras	(6 marks)	
QUESTION FIVE				
a) b)	, , , , , , , , , , , , , , , , , , ,			

b) List FOUR uses of cryogenic fluids(4 marks)c) Describe safety precautions when working with cryogenic fluids(10 marks)