

# **Technical University of Mombasa**

Faculty of Applied and Health Sciences

#### DEPARTMENT OF PURE AND APPLIED SCIENCES

DIPLOMA IN ANALYTICAL CHEMISTRY (DAC 11M)

**ACH 2303: PHOTOGRAPHY, CRYOGENIC, GLASS BLOWING (PVG)** 

**SPECIAL/SUPPLEMENTARY: EXAMINATIONS** 

**SERIES:** OCTOBER 2013

TIME: 2 HOURS

#### **INSTRUCTIONS:**

You should have the following for this paper

- Answer booklet

This paper consists of *FIVE* questions.

Answer Question ONE (compulsory) and any other TWO questions

This paper consists of **2 PRINTED** pages

# **Question ONE**

a)	(i)	Explain photography	(2marks)
	(ii)	Explain requirements needed for glass blowing workshop	(4makrs)
b)	(i)	Give reasons why a cryogenic contains should not be completed closed	(1mark)
	(ii)	Describe a Dewar	(3marks)
	(iii)	Give account of operation care of over head projector (OHP)	(2marks)
c)	Describe contact printing		(6marks)
d)	(i)	Explain how to test for a dark room	(4marks)
	(ii)	Mention any FOUR microscopes	(2marks)
e)	(i)	Draw and label 35mm camera	(3marks)
	(ii)	Classify camera according to film codes	(3marks)

# **Question TWO**

a) Des	cribe photographic developing Tank	(10marks)
b) Exp	lain the following:	
(i)	Depth of field	(3marks)
(ii)	Circle of confusion	(2marks)
(iii)	F-number	(3marks)
(iv)	Open-light	(2marks)

## **Question THREE**

a)	Discuss the benefits of using overhead project (OHP)	(10marks)
b)	Outline basic characteristics of an dark room.	(10marks)

## **Question FOUR**

a)	Differ	entiate between soft and nard glass	S	(Iumarks)
b)	Explain the following			
	(i)	Devitrification		(3marks)
	(ii)	Bloom		(3marks)
	(iii)	Annealing of glass		(4marks)