

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY

DAC 14S

ACH 2211: PHOTOGRAPHY AND CRYOGENIC TECHNIQUES

END OF SEMESTER EXAMINATION

SERIES: APRIL2016

TIME:2HOURS

DATE: Pick DateSelect MonthPick Year

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.**

Question ONE

(a) Outline the procedures of carrying out film development in a darkroom	1. (12marks)
(b) Explain the three chief enemies of a camera.	(9 marks)
(c) Describe three types of developing papers.	(9 marks)
Question TWO	
(a) Explain the following type of lenses used in photography.	
(i) Meniscus lens.	(5marks)
(ii) Achromatic lens.	(3mrks)

(ii) i temomatic tens.	(511113)
(iii) Wide angle lens.	(4marks)
(b) Explain two ways of correcting coma lens defect.	(3marks)

Question THREE

(a) State eight points of how one can take care of a lens.	(8marks)
(b) (i) Define cryogenic liquids.	(3marks)
(ii) List four inert gases that can form cryogenic liquids.	(4marks)

Question FOUR

Discuss the following groups of hazards of cryogenic liquids.

(i) Extreme cold.	(5marks)
(ii) Asphyxiation.	(6marks)
(iii) Toxicity.	(4marks)

Question FIVE

Discuss briefly the following types of film.

(i) Panchromatic	(8marks)
(ii) Hyper panchromatic	(7marks)