TECHNICAL UNIVERSITY



OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY

DAC 15S

ACH 2211 : PHOTOGRAPHY AND CRYOGENIC TECHNIQUES

SPECIAL SUPPLEMENTARY EXAMINATION

SERIES: AUGUST 2017

TIME: 2 HOURS

DATE: Pick Date Select Month Pick 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. Attempt question ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.**

Question ONE

(a) Briefly discuss the features of chloride type of print developing out paper.	(8marks)	
(b) State FOUR types of film filters.	(4marks)	
(c)Explain features and use of wide angle photographic lens.	(4marks)	
(d) Discuss briefly panchromatic type of film	(6marks)	
(e) Define cryogenic fluids.	(2marks)	
(f) State THREE (i) groups of flammable hazards of cryogenic fluids. (ii) uses of cryogenic fluids.	(6marks)	
Question TWO		
(a) Give THREE types of developing out paper and their emulsion coating.	(6marks)	
(b) State (i) THREE filters that are made from transparent plastics. (ii) THREE chief enemies of a cam	era.	
(iii) THREE types of cryogenic fluids.	(9marks)	
©Technical University of Mombasa Page 1 of 2	Page 1 of 2	

Question THREE

(a) State (i) TWO ways of correcting " coma" a type of defect that occur in double convex lens.	(4marks)
(ii)FIVE examples of inert gases that can be used as cryogenic liquids	(5marks)
(b)Discus the following types of photographic lens. (i) Rectilinear lens (ii) Zoom lens	(6marks)
Question FOUR	
(a) Briefly discuss hyperpanchromatic type of film.	(9marks)
(b) Give THREE (i) Examples of flammable gases that are used as cryogenic fluids	
(ii) Health hazards associated with cryogenic fluids.	(6marks)
Question FIVE	
(a) Define the following terms associated with cryogenic fluids. (i) Cryosurgery. (ii) Cryoelectronic.	
(a) Define the following terms associated with cryogenic fluids. (i) Cryosurgery. (ii) Cryoelectronic. (iii) Cryobiology.	(3marks)
	(3marks) (6marks)
(iii) Cryobiology.	
(iii) Cryobiology. (b) State THREE uses of cryogenic gases.	