



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES
DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY
(DSL T 12S)

ACH 2302 : PHOTOGRAPHY, CRYOGENIC, GLASS BLOWING & VACUUM

SEMESTER: EXAMINATIONS

SERIES: DECEMBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

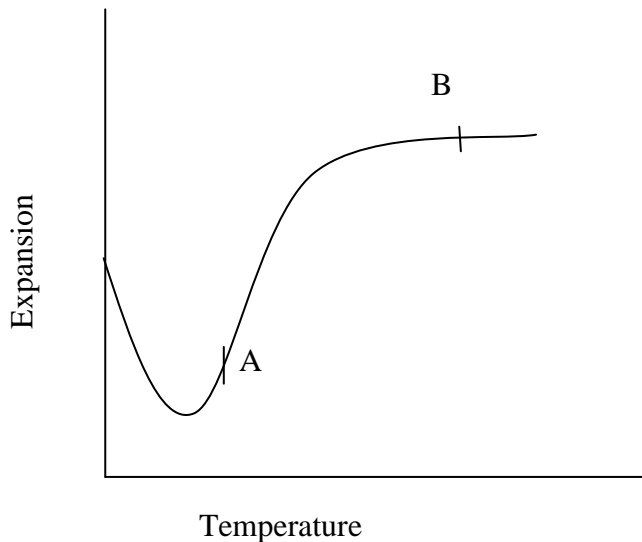
This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

This paper consists of 3 PRINTED pages

Question ONE

- (a) (i) Explain depth of field (2marks)
(ii) F-number (2marks)
(iii) Mention factors influencing depth-of-field (3marks)
(iv) Draw well labelled diagram of contact printing (3marks)
- (b) Explain
(i) Annealing (3marks)
(ii) Devitrification (2marks)
(iii) Bloom (2marks)
(iv) Bonding of glass (3marks)
- (c) (i) The graph describe the characteristics of curve of coefficient of expansion with rise of temperature. Describe process at A and B (3marks)



- (ii) Briefly discuss how to make cryogenics (7marks)

Question TWO

Discuss the process of converting negative to a print (20marks)

Question THREE

- (a) State SIX important industrial uses of cryogenic substances (7marks)
(b) Explain why it is not advisable to transport cryogenic in a lift (13marks)

Question FOUR

Describe the head of enlarger projectors

(20marks)

Question FIVE

(a) Discuss classification of photographic papers

(10marks)

(b) Discuss the procedure of glazing of prints

(10marks)