



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A constituent of JKUAT)

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
TECHNOLOGY IN APPLIED CHEMISTRY

ACH 4308 : FORENSIC ANALYSIS

SPECIAL/SUPPLEMENTARY EXAMINATION

FEBRUARY 2013 SERIES 2
HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

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

Question ONE

- a) (i) Explain the importance of crystallography **(5marks)**
- (ii) Explain twinned crystals. **(5marks)**
- b) John Mark is a Doctor. He was summoned to appear in court to give evidences of a case. Describe how John Mark would behave in court. **(10marks)**
- c) Briefly discuss factors influencing the rate of cooling of a dead body. **(10marks)**

Question TWO

- a) Mention different types of microscopes used inforensic laboratories. **(10marks)**
- b) Draw and label a dark field microscope **(10marks)**

Question THREE

- a) Explain imperfections of crystals **(11marks)**
- b) Discuss different types of witnesses **(9marks)**

Question FOUR

Write an essay on how a forensic expert would write a report of living patients. **(20marks)**

Question FIVE

Discuss the identification of decomposed or skeletalized remains **(20marks)**