



TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF PURE & APPLIED SCIENCES
UNIVERSITY EXAMINATION FOR:
BACHOLAR OF TECHNOLOGY (ANALYTICAL CHEMISTRY)

Type unit code:ACH 4308. FORENSIC ANALYSIS Type unit name.

END OF SEMESTER EXAMINATION PAPER I

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) Explain, under what circumstances a Doctor would be summoned in to make a medical report. 3marks
- ii). Outline the functions of forensic laboratories. 3marks
- bi). Briefly describe brain-stem- death. 3marks
- ii). Mention different glass tests in the laboratories. 3marks
- ci). Explain the formation of natural glasses. 3marks
- ii). Differentiate between cleavage and fracture. 2marks
- di). Mention six types of wounds. 3marks
- ii). Explain mineral metallic luster 3marks

- ei). Explain the importance of crystallography. 4marks.
- ii). Write in full D-3S and briefly explain. 2marks

QUESTION TWO.

- a). Discuss the functions of medico-legal autopsy. 8marks
- b). Glass fragments analysis at the scene of crime can provide useful clues about a crime. Explain. 12marks

QUESTION THREE.

- a). Explain the following.
- i) Wound 2marks
- ii). Injury 2mark
- iii) Assault. 1mark
- iv). Homicide. 1mark
- b). Describe features of stab wounds. 14marks.

QUESTION FOUR.

- a). Explain the following.
- i). Motif 2marks
- ii). Unit cell 2marks
- iii). Structure 2marks
- iv). Lattices 2marks.
- b). Discuss how blood staining can assist in legal issues. 12marks

QUESTION FIVE.

- a). Describe cleavage formation in minerals. 10marks
- b). Discuss circumstances leading to Rigo Mortis. 10marks

