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**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.**

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**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. 12msrks

**QUESTION FIVE.**

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



