



# TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

## UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND

FORENSIC TECHNOLOGY

AML 4450 GENERAL PATHOLOGY

END OF SEMESTER EXAMINATION

**SERIES: JULY 2025**

**TIME: 2 HOURS**

**DATE: Pick Date JULY 2025**

### **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.**

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### **Question ONE**

- a) Briefly describe the course of disease in pathology (6 Marks)
- b) Explain the contrast between metastatic and dystrophic calcification in pathology (4 Marks)
- c) Highlight any **FIVE** (5) causes of chronic inflammation (5 Marks)
- d) Compare and contrast wound healing by primary and secondary union (5 Marks)
- e) State **FIVE** (5) differences between red and white infarcts (5 Marks)
- f) Outline **FIVE** (5) difference between venous and arterial thromboses (5 Marks)

### **Question TWO**

- a) Explain the systemic effects of inflammation (10 Marks)
- b) Explain the five cardinal signs of acute inflammation (10 Marks)

### **Question THREE**

- a) Describe the **THREE** (3) types of cells involved in healing based on their proliferative capacity (9 Marks)
- b) Explain the complications of wound healing (11 Marks)

**Question FOUR**

- a) Discuss the classification and causes of cardiogenic shock (10 Marks)
- b) Explain factors that determine the development and size of an infarct (10 Marks)

**Question FIVE**

- a) Describe the factors predisposing an individual to thrombosis (10 Marks)
- b) Explain how changes in hydrostatic and oncotic pressures cause edema (10 Marks)