



# 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: DECEMBER 2024**

**TIME: 2 HOURS**

**DATE:** Pick Date **DECEMBER 2024**

### **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 core aspects of disease which is studied in pathology (5 Marks)
- b) Compare and contrast necrosis and apoptosis (5 Marks)
- c) Explain why inflammation is a protective response (5 Marks)
- d) State any **FIVE** (5) factors that influence fracture healing (5 Marks)
- e) Explain the conditions that cause generalized body oedema (5 Marks)
  
- f) Differentiate between superficial venous thrombosis (SVT) and deep venous thrombosis (DVT) (5 Marks)

### **Question TWO**

- a) Describe the sources of chemical mediators of inflammation (10 Marks)
- b) Give a detailed account on morphological types of acute inflammation (10 Marks)

### **Question THREE**

- a) Explain the factors that may influence wound healing (14 Marks)

- b) Describe **THREE** (3) phases observed in granulation-tissue formation during connective tissue mediated healing (6 Marks)

**Question FOUR**

- a) Describe the causes and effects of hypovolemic shock (10 Marks)  
b) Describe any four clinical examples of infarction (10 Marks)

**Question FIVE**

- a) Describe how a thrombus is formed explaining its fate after formation (10 Marks)  
b) Describe mechanisms of edema formation in congestive heart failure (10 Marks)