

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**SECOND YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF BIOMEDICAL SCIENCE AND
TECHNOLOGY**

BMED 212: PATHOPHYSIOLOGY

STREAM: R

TIME: 2 HRS

DAY: FRIDAY [8.30 – 10.30 A.M]

DATE: 30/01/2026

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

SECTION A (40 MARKS)

- Attempt all questions
- Each question 5 marks

QUESTION ONE

Compare and contrast the etiology and pathogenesis of a disease. (5 Marks)

QUESTION TWO

Outline clinical characteristics of inflammation. . (5 Marks)

QUESTION THREE

Explain the general principles of the pathogenesis of genetic disorders. (5 Marks)

QUESTION FOUR

Give a brief account of pathological changes in muscle. (5 Marks)

QUESTION FIVE

Outline the regulation of body fluid balance and sodium levels. (5 Marks)

QUESTION SIX

Elaborate on the pathophysiology of Parkinson's disease (5 Marks)

QUESTION SEVEN

Outline the pathogenesis of chronic kidney disease (CKD) (5 Marks)

QUESTION EIGHT

Write short notes on the pathogenesis of Peptic Ulcer disease (PUD) (5 Marks)

SECTION B (30 MARKS)

QUESTION NINE (15 MARKS)

Using the example of Type 2 Diabetes Mellitus, discuss the pathophysiology of an endocrine disorder. **(15 Marks)**

QUESTION TEN (15 MARKS)

Describe the pathophysiology of chronic obstructive pulmonary disease (COPD) in terms of etiology, pathogenesis, and effects on airway function. **(15 Marks)**

QUESTION ELEVEN (15 MARKS)

Discuss the pathogenesis of atherosclerosis and its role in the development of myocardial infarction. **(15 Marks)**