

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

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

BMED 316: NUTRITION AND DISEASE

STREAM: R

TIME: 2 HRS

DAY: THURSDAY [11.30 – 1.30 P.M]

DATE: 29/01/2026

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

Instructions

Answer ALL questions in section A and any TWO questions in section B

SECTION A (40 MARKS)**QUESTION ONE**

Define the following terms

(5 Marks)

- (i) Diet
- (ii) Health
- (iii) Malnutrition
- (iv) Nutraceutical
- (v) Nutrient

QUESTION TWO

Outline the function of lactase, sucrose and isomaltase in the digestion of carbohydrates (6 Marks)

QUESTION THREE

Explain the hormonal regulation of blood glucose levels

(6 Marks)

QUESTION FOUR

Point out the cause and effect of lysinuric protein intolerance

(3 Marks)

QUESTION FIVE

Distinguish functional foods from nutraceuticals

(5 Marks)

QUESTION SIX

Outline the deficiency symptoms of thiamine

(5 Marks)

QUESTION SEVEN

Highlight methods for the assessment of nutritional status

(4 Marks)

QUESTION EIGHT

Explain how lipids are metabolised in the body

(6 Marks)

SECTION B (30 MARKS)**QUESTION SEVEN (15 MARKS)**

Write an essay on the absorption of dietary lipids

(15 Marks)

QUESTION EIGHT (15 MARKS)

Describe the types of routine hospital diets

(15 Marks)

QUESTION NINE (15 MARKS)

Write an essay on nutrient-drug interactions

(15 Marks)