

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY



SSC1205

FACULTY OF APPLIED SCIENCES

DEPARTMENT OF SPORTS SCIENCE AND COACHING

CONVENTIONAL/BLOCK RELEASE PROGRAMME

SSC1205: FUNCTIONAL HUMAN ANATOMY

EXAMINATION QUESTION PAPER

OCTOBER 2024

This examination question paper consists of 2 pages

TIME ALLOWED: 3 HOURS
TOTAL MARKS: 100
SPECIAL REQUIREMENTS: NIL
EXAMINER'S NAME: MRS S H RUTSATE

INSTRUCTIONS

- 1) Answer any 4 questions.
- 2) Each question carries 25 marks.
- 3) Where a question contains subdivisions, the mark value for each subdivision is given in brackets.

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
TOTAL	100

Question One

Using Illustrations explain the structural Anatomical functions of the Skeleton

[25 Marks]

Question Two

An 18-year-old Senior Athletics Boy complains of pain and movement around his knee and shoulder. He is advised to visit you the functional Anatomist.

- a) Inform the athlete about the movements of the knee. Use Drawings to illustrate your answer. [15 Marks]
- b) Analyse the shoulder joint movements and functions and how as an athlete they can maintain a pain free shoulder? [10 Marks]

Question Three

- a) Explain how rotation is possible within the vertebral column? [15 Marks]
- b) Compare the grey and white matter of the brain. [10 Marks]

Question Four

Analyse the brain and explain the functions in the divisions of the brain.

[25 Marks]

Question Five

Describe any five of the major organs of the endocrine system and their functions.

[25 Marks]

Question Six

Respiration plays a crucial role in sports and physical performance as it involves the process of taking in oxygen and expelling carbon dioxide, which is vital for energy production in the body.

Discuss how respiration impacts sport with its several components?

[25 Marks]

END OF EXAMINATION