



ZIMBABWE EZEKIEL GUTI UNIVERSITY
COLLEGE FOR LIFELONG LEARNING.

FACULTY OF SCIENCE, SCIENCE, TECHNOLOGY, AGRICULTURE & FOOD SYSTEMS.

EXAMINATION PAPER

COURSE CODE : DSC111 - HUMAN ANATOMY AND PHYSIOLOGY
COURSE TITLE : DIPLOMA SPORTS SCIENCE & COACHING
SPECIAL REQUIREMENTS : None

DURATION : 2 Hours
LEVEL :
DATE : 13 JUN 2025

INSTRUCTIONS TO CANDIDATES:

1. No cell phones are allowed in the examination venue.
2. Answer Question 1 and any three (3) questions.
3. The number of marks for each question or part question is shown in brackets []
4. Diagrams and labelled sketches are encouraged where appropriate.
5. Begin each answer on a new page.
6. **DO NOT OPEN THIS PAPER UNTIL THE INVIGILATOR INSTRUCTS YOU.**

SECTION A – COMPULSORY QUESTION

QUESTION 1 - Case Study

A patient presents with symptoms of dehydration, including dry mouth, dark urine, and decreased urine output.

- a) Identify the potential causes of dehydration and explain the physiological mechanisms that lead to these symptoms. **(15 marks)**
- b) Discuss the importance of fluid balance in maintaining homeostasis and the role of the kidneys in regulating fluid balance. **(10 marks)**

SECTION B – ANSWER ANY THREE QUESTIONS

QUESTION 2

Describe the anatomy and physiology of the human digestive system. **(25 Marks)**

QUESTION 3

Explain the structure and function of the human muscular system. **(25 Marks)**

QUESTION 4

Discuss the importance of the lymphatic system in maintaining immune function. **(25 Marks)**

QUESTION 5

- a) Describe the structure and function of the human heart. **(10 Marks)**
- b) Explain the process of synaptic transmission in neurons. **(10 Marks)**
- c) Discuss the role of the pancreas in regulating blood sugar levels. **(5 Marks)**

END