

102105T4COH

COMMUNITY HEALTH LEVEL 5

HE/OS/CH/CC/03/5/A

APPLY HUMAN ANATOMY AND PHYSIOLOGY

July /August 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the questions as guided in each section
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet to answer the questions
5. Do not write in this question paper

This paper consists of THREE (3) printed pages

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

SECTION A: [40 MARKS]

Answer ALL questions in this section.

1. Define the following terms;
 - a) An organ. [2 Marks]
 - b) Human physiology. [2 Marks]
2. A neuron is the fundamental building block of the nervous system. Identify THREE parts of a neuron. [3 Marks]
3. The human skeleton is the internal framework of the human body. Outline THREE functions of the skeletal system. [3 Marks]
4. The brain is a complex part of the human body. Outline FOUR functions of the brain. [4 Marks]
5. The Circulatory system comprises channels that transport blood throughout the body. Distinguish between veins and arteries. [4 Marks]
6. The human body has a defence system to protect itself from harmful pathogens. Outline THREE types of immunity. [3 Marks]
7. Hormones are chemical messengers that regulate many body functions. Identify THREE human body functions that are regulated by hormones. [3 Marks]
8. The nucleus is one of the noticeable cell organelles. Outline FOUR functions of the cell nucleus. [4 Marks]
9. A human urinary system comprises various parts in its structure that serve different functions. Identify the function of the following parts;
 - a) Nephron [1 Mark]
 - b) Ureter [1 Mark]
 - c) Bladder [1 Mark]
10. Highlight FOUR differences between the sympathetic nervous system and parasympathetic nervous systems. [4 Marks]
11. Gaseous exchange is essential for the respiration process. Outline TWO respiratory gases. [2 Marks]
12. The male reproductive system includes the external genitals and internal parts. Outline THREE internal parts of the system. [3 Marks]

SECTION B: [60MARKS]

*Answer any **THREE** questions in this section.*

13. The human digestive system comprises various parts that play different roles to ensure food is fully digested and utilized.
- a) Explain FIVE accessory organs of digestion. [10 Marks]
 - b) Explain FIVE adaptations of the small intestine to its function. [10 Marks]
14. The human circulatory system is a collection of organs that transport oxygen and nutrients to cells and remove waste products from the body.
- a) With an aid of well-labelled diagram, illustrate the human heart. [10 Marks]
 - b) Explain TWO types of circulations. [4 Marks]
 - c) Explain THREE cardiovascular disorders. [6 Marks]
15. The skin is the body's largest organ, and it's adapted to perform multiple functions that are essential for survival.
- a) Explain SIX adaptations of the skin to its function [12 Marks]
 - b) Explain FOUR skin disorders. [8 Marks]
16. The mechanism of breathing in (inhalation) and breathing out (exhalation) relies on the interplay between muscles, pressure changes, and gas exchange in the lungs.
- a) With a well-labelled diagram, illustrate the structure of the human respiratory system. [10 Marks]
 - b) Explain the mechanism of inhalation. [8 Marks]
 - c) Explain ONE prevention and control measure of non-communicable diseases of the respiratory system. [2 Marks]

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