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COMMUNITY HEALTH LEVEL 6

HE/OS/CH/CC/04/6

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Apply Human Anatomy and Physiology

Date: 20.11.2025 10:43 AM

November/December 2025

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

WRITTEN ASSESSMENT

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TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

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1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A and **ANY THREE (3)** questions in Section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet.
5. Do not write on the question paper.

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This paper consists of THREE (3) printed pages.

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Candidate 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 from this section.

1. The human body is made up of three different types of muscle. Identify FOUR differences between skeletal muscle and smooth muscles. (4 Marks)
2. Jacob fell from a cliff and injured his fore arm. Highlight TWO bones that he might have injured. (2 Marks)
3. Skin is the body's largest organ. State FOUR functions of the skin. (4 Marks)
4. A neuron is the primary functional unit of the nervous system. Outline THREE morphological adaptations of the neuron that make it suitable for the transmission of nerve impulses. (3 Marks)
5. The human organism is organized into six structural and functional levels. Identify FOUR levels of this organization. (4Marks)
6. Cells provide structure for living things. Enumerate THREE elements of the cell theory. (3 Marks)
7. The anterior pituitary gland plays a pivotal role. State FOUR hormones of the anterior pituitary gland. (4 Marks)
8. Connective tissue is one of the basic tissue types of the body. Highlight FOUR functions of connective tissues. (4Marks)
9. Staining is widely used in histopathology and diagnosis, as it allows for the identification of abnormalities in cell count and structure under the microscope. State TWO techniques used in histological staining. (2 Marks)
10. Janet has complained of pain in the upper ventral cavity. Identify FOUR organs that might be attributing to this pain. (4 Marks)
11. The sperm contains essential nutrients and are responsible for fertilizing the egg. Outline THREE adaptations of the male sperm to its function. (3 Marks)
12. The respiratory system plays a critical role in gaseous exchange in the human body. Identify THREE non-communicable diseases of the respiratory system. (3 Marks)

SECTION B (60 MARKS)*Answer any THREE questions in this section.*

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13. Hypertension (high blood pressure) is increasingly common in Kenya due to lifestyle changes.

a) Differentiate between systolic and diastolic blood pressure. (4 Marks)

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b) Identify TWO symptoms you may observe in a patient with hypertension. (2 Marks)

c) Explain TWO lifestyle changes that can prevent hypertension. (4 Marks)

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d) Discuss FIVE complications of uncontrolled hypertension. (10 Marks)

14. Diabetes has emerged as a significant public health concern in Kenya. Recent findings revealed that the prevalence of Type 2 diabetes is higher than that of Type 1 in both urban and rural areas.

a) Analyse TWO differences between Type 1 and Type 2 diabetes (4 Marks)

b) Identify TWO symptoms of diabetes (2 Marks)

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c) Explain TWO preventive measures for Type 2 diabetes. (4 Marks)

d) Describe FIVE causes of diabetes. (10 Marks)

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15. The respiratory system is a body system composed of organs and structures that facilitate the exchange of oxygen and carbon dioxide between the body and the external environment.

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a) Describe EIGHT functions of the respiratory system. (16 Marks)

b) Discuss TWO respiratory disorders. (4 Marks)

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16. The endocrine system is a network of glands that secrete hormones directly into the bloodstream to regulate essential body processes such as growth, metabolism, reproduction, and homeostasis.

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a) Describe EIGHT functions of the endocrine glands. (16 Marks)

b) Discuss TWO disorders of endocrine system. (4 Marks)

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