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**102105T4COH**

## **COMMUNITY HEALTH LEVEL 5**

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## **Apply Human Anatomy and Physiology**

**November/December 2025**

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

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### **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**

**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)

***Attempt ALL the questions in this section.***

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1. A patient comes to you with a respiratory condition suggestive of a severe asthmatic attack, provide THREE signs and symptoms they will be presenting with. (3 Marks)

2. List FOUR factors that play a role in the coagulation process. (4 Marks)

3. Identify TWO hormones involved in calcium homeostasis which work antagonistically to maintain normal blood calcium levels. (2 Marks)

4. Name FOUR important biological molecules. (4 Marks)

5. Antibodies are produced by the immune system to identify and neutralize pathogens like bacteria, viruses and fungi. Name FOUR types of these protective agents.

(4 Marks)

6. Cardiac output refers to the amount of blood ejected from each ventricle every minute. Identify THREE factors affecting output. (3 Marks)

7. Pulse is a wave of distension and elongation felt on an artery wall each time blood is ejected from the left ventricle into the system. Name THREE points. (3 Marks)

8. Bones form the human skeleton; they have different roles like support, movement and storage of mineral. Identify FOUR types. (4 Marks)

9. Identify FOUR causes of hearing loss. (4 Marks)

10. A patient comes to you complaining of chronic fatigue, weight gain, and intolerance to cold. Based on these symptoms provided, name the endocrine gland affected.

(2 Marks)

11. The inner ear is divided into two parts; it contains the organs of hearing and balance.

Identify THREE parts contained in it. (3 Marks)

12. As a Community Health Assistant you need anatomy and physiology understanding to enable you work competently. Record FOUR reasons why this knowledge is important.

(4 Marks)

**SECTION B (60 MARKS)**

*Answer any THREE questions in this section*

13. The menstrual cycle is a complex process of physiological changes in the female reproductive system. Its sole purpose is to prepare the body for a potential pregnancy each month.

a) Examine FOUR phases of this cycle. (12 Marks)

b) Describe FOUR internal organs of the female reproductive system (8 Marks)

14. Patient D is presenting with severe dehydration which is a risk factor to kidney injury.

a) Examine FIVE ways the body will conserve water and restore normal blood volume using the Renin-angiotensin-aldosterone system. (10 Marks)

b) Describe FIVE disorders of the urinary system. (10 Marks).

15. Organs of the respiratory system work collectively to support its normal functioning.

a) Describe SEVEN organs of this system. (14 Marks)

b) Explain THREE Physiological variables affecting breathing. (6 Marks)

16. The human cell is the fundamental, microscopic unit of structure and function in the human body. It is the smallest entity that can be considered alive, capable of independent growth, metabolism, responsiveness, and reproduction.

a) Draw and label FIVE parts of this cell (A, B, C, D, and E). (10 Marks)

b) Describe one function for each organelle identified in question a) above. (10 Marks)