

**102105T4COH**

**COMMUNITY HEALTH LEVEL 5**

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

**Apply Human Anatomy and Physiology**

**Nov/Dec 2024**



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

**WRITTEN ASSESSMENT**

**Time: 3 HOURS**

**INSTRUCTIONS TO CANDIDATE**

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on 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 the questions in this section*

1. Organelles are special and organized structures seen in living cells. Highlight **FOUR** organelles found in a human cell (4 Marks)
2. Tissues are group of cells with similar structure and specific functions. State **FOUR** main classes of tissues (4 marks)
3. The lymphatic system drains excess fluid that accumulates in bodily tissue, filters out foreign bodies, and transports it back into the bloodstream. Name **FOUR** organs of the lymphatic system (4 marks)
4. The integumentary system is the largest organ of the body that forms a physical barrier between the external environment and the internal environment. Highlight **THREE** main components of the integumentary system (3 Marks)
5. The skeletal system is your body's support structure, Name **FOUR** types of bones in the skeleton system (4 marks)
6. Diseases of the joint may be short-lived or chronic. Outline **TWO** disorders that affect human joints (2marks)
7. Liver is the largest solid organ in the human body. State **FOUR** functions of the liver (4 marks)
8. The kidneys lie on the posterior abdominal wall, one on each side of the vertebral column. Highlight **FOUR** functions of the kidney (4 marks)
9. The pancreas has two main function one of which is hormonal production. Identify **TWO** main hormones produced by the organ (2 Marks)
10. The brain is a complex organ that controls thought, memory, emotion, touch, motor skills, vision, breathing, temperature, hunger and every process that regulates our body. Outline the **THREE** parts of a human brain (3 Marks)
11. Nervous system is a complex network of tissues and organs that control and coordinate all bodily function. State **TWO** main divisions of the nervous system (2 Marks)
12. There are different diseases and disorders that can affect the female reproductive system. Highlight **FOUR** disorders of the female reproductive system (4 marks)

**SECTION B (60 MARKS)**

*Answer Three Questions in this Section*

13. Your digestive system is a network of organs that help you digest and absorb nutrients from your food
- a) With an aid of a well-labeled diagram illustrate the structure of human digestive system (10 marks)
  - b) Describe **TWO** functions of the stomach (4 marks)
  - c) Explain **THREE** disorders of the digestive system (6 marks)
14. A 72-year-old man from your health unit has a history of hypertension, coronary artery disease, congestive heart failure, anxiety, present to the emergency department for seven hours of non-radiating chest pain associated with dyspnea (Shortness of breath)
- a) Explain **FOUR** main risk factors to cardio-vascular diseases (8 Marks)
  - b) Describe **THREE** adaptation of arteries to their function of transporting blood from the heart to the rest of the body tissues (6 Marks)
  - c) Explain **THREE** functions of the heart (6Marks)
15. The respiratory system is crucial for human survival
- a) Describe **THREE** functions of the respiratory system. (6 Marks)
  - b) With an aid of a diagram illustrate the structure of human respiratory system (10 Marks)
  - c) Explain **TWO** communicable diseases of the respiratory system (4 marks)
16. Gladys Howe, a 67-year-old female presents congestive heart failure, was admitted to the hospital ICU three weeks ago. Incidence data indicate that hospitalized elderly patients are susceptible to developing urinary system complications.
- a) Explain **FOUR** function of the of the urinary system (8 marks)
  - b) Discuss **FOUR** disorders of the urinary system (8 marks)
  - c) Explain **TWO** prevention measures aimed at lowering the chances of getting kidney diseases (4 marks)