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HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6

HE/OS/HR/CC/01/6

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Apply Human Anatomy and Physiology

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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

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INSTRUCTIONS TO CANDIDATE

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1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A.
3. Answer question **THIRTEEN** (13) and any other **TWO** (2) questions in section B.
4. Marks for each question are indicated in the brackets.
5. Candidates are provided with a separate answer booklet
6. Do not write on the question paper.

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This paper consists of FIVE (5) 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

1. Blood vessels vary in structure, size and function. Name THREE types of blood vessels.

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(3 Marks)

2. The five senses are the sensory mechanisms that allow humans and other animals to perceive and interact with their environment. State FOUR sensory organs.

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(4 Marks)

3. Female genital mutilation (FGM) is one of the cultural practices that have led to the high rate of HIV Infection in Kenya. Identify FOUR external organs of the female reproductive system.

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(4 Marks)

4. Cells provide the necessary structural support to an organism. Give the functions of the following organelles.

a) Mitochondrion.

(2 Marks)

b) Ribosome.

(2 Marks)

5. Muscles are the only type of tissues in the body that can contract to produce a movement. State THREE types of muscle tissue found in the human body.

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(3 Marks)

6. The cardiac system is paramount in ensuring that all the cells of the body are supplied with nutrients and oxygen. List FOUR factors that affect the heart rate.

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(4 Marks)

7. Distinguish between vasoconstriction and vasodilation.

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(4 Marks)

8. The body, just like the computer, has the central processing unit, which integrates various functions. State THREE functions of the human cerebrum.

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(3 Marks)

9. Red blood cells are found in the human blood and play a vital role in the human body. State TWO adaptations of the red blood cell to its function.

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(2 Marks)

10. You are working in a hospital where a patient is brought in the emergency department with second degree burns. Identify THREE components of the Integumentary system.

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(3 Marks)

11. Hormones act as chemical signals, which are used to elicit chemical changes and reactions through interaction with receptors. List THREE endocrine glands found in the abdominal cavity.

(3 Marks)

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12. For normal functioning of the body, various tissues acquire important substances from the immediate environments and release waste. These substances move in and out of tissue cells through various methods. Define the following terms as used in transport in the human body (3 Marks)

a) Facilitated diffusion.

b) Active transport.

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c) Osmosis.

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SECTION B (60 MARKS)

Attempt question THIRTEEN 13 and any other TWO (2) questions in this section.

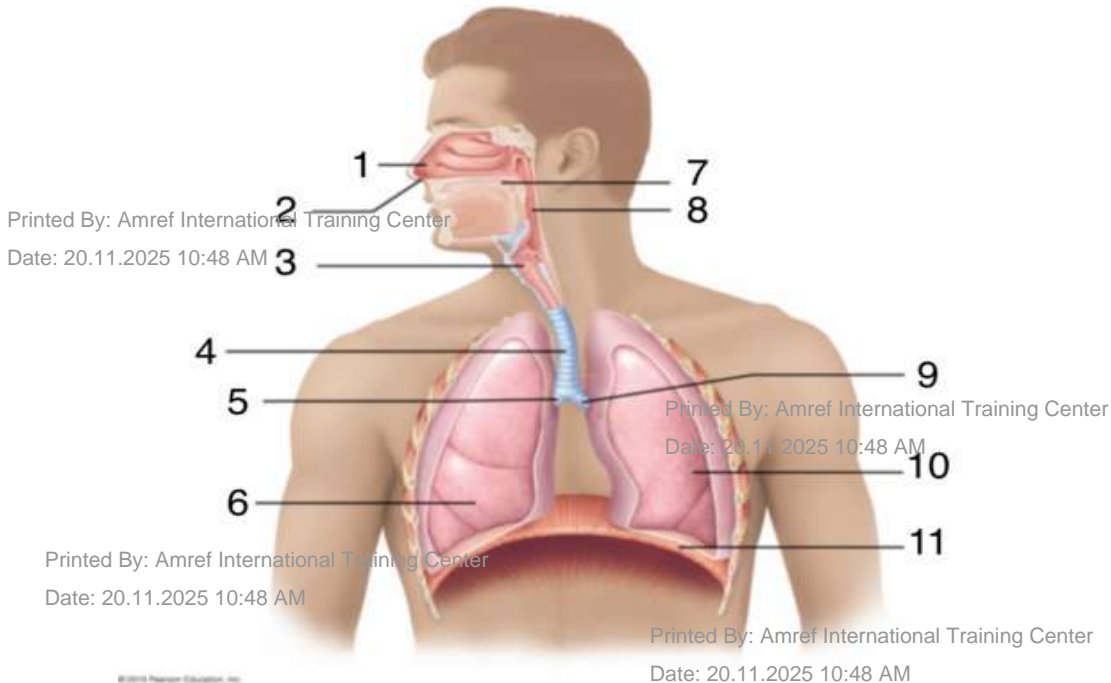
13. Mr. S has been involved in a road accident. An x-ray show that he has sustained injuries in most of the bone that are in the axial skeletal system.

a) Name TWO structures found in the axial skeletal system. (2 Marks)

b) Explain FOUR functions of the skeletal system. (8 Marks)

c) Describe FIVE classifications of bone and give an example of a bone under each category. (10 Marks)

14. Patient J reported at Tumaini hospital with signs of upper respiratory tract infection and needed urgent attention. The doctor examined his respiratory system and gave him medication. The diagram below shows the respiratory system.



a) Identify the following parts and give ONE function of each mentioned part.

(10 Marks)

i. 3

ii. 4

iii. 6

iv. 8

v. 11

b) Explain FIVE adaptations of the respiratory system to its function.

(10 Marks)

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15. The circulatory system is responsible for transporting materials to the entire body

- a) Identify **FOUR** components of the circulatory system. (4 Marks)
- b) Describe **FIVE** pathways of systemic circulation. (10 Marks)
- c) Describe **THREE** adaptations of the heart to its function. (6 Marks)

16. Most of the human body is water, with an average of roughly 60%. Water is essential for health and is necessary for numerous bodily functions.

- a) Explain **FIVE** functions of water in the body. (10 Marks)
- b) Describe **FIVE** constituents of the blood plasma. (10 Marks)

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