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091906T4HR

HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6

HE/OS/HR /CC/01/6

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Apply Human Anatomy and Physiology

July/August 2025

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TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION

COUNCIL (TVET CDACC)

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WRITTEN ASSESSMENT

Time: 3 HOURS

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INSTRUCTIONS TO CANDIDATE

1. **This paper consists of TWO sections: A and B.**
2. **Attempt ALL questions in section A.**
3. **Attempt question TWELVE (12) 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 FOUR (4) 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)

Attempt ALL the questions in this section.

1. Define the following anatomical terms:

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a) **Physiology.** (2 Marks)

b) **Gross Anatomy.** (2 Marks)

2. Differentiate between Smooth Endoplasmic Reticulum and Rough Endoplasmic Reticulum. (4 Marks)

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3. Blood plasma constitutes a higher percentage of water than other components. Mention THREE uses of water in a human's body. (3 Marks)

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4. The respiratory system comprises of various organs. List FIVE organs of the respiratory system. (5 Marks)

5. The human body is incomplete without hair covering. State THREE uses of hair. (3 Marks)

6. The brain is a very crucial part of an individual's well-being. Identify THREE of its parts. (3 Marks)

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7. Distinguish between Osmosis and Diffusion. (4 Marks)

8. The kidney is a bean shaped organ that performs diverse functions in the body. State FOUR functions of the kidneys. (4 Marks)

9. Contraction and relaxation of muscles is essential in achieving anatomical functions. Give THREE types of muscles of the body. (3 Marks)

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10. In Kenya, the cases of communicable diseases have been rampant in the recent past compared to non-communicable diseases. The government is working towards

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ensuring that the cases are well mitigated. Distinguish between communicable and non-communicable. (4 Marks)

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11. Joints in the skeletal system, form articulation where two or more bones meet. List THREE types of joints. (3 Marks)

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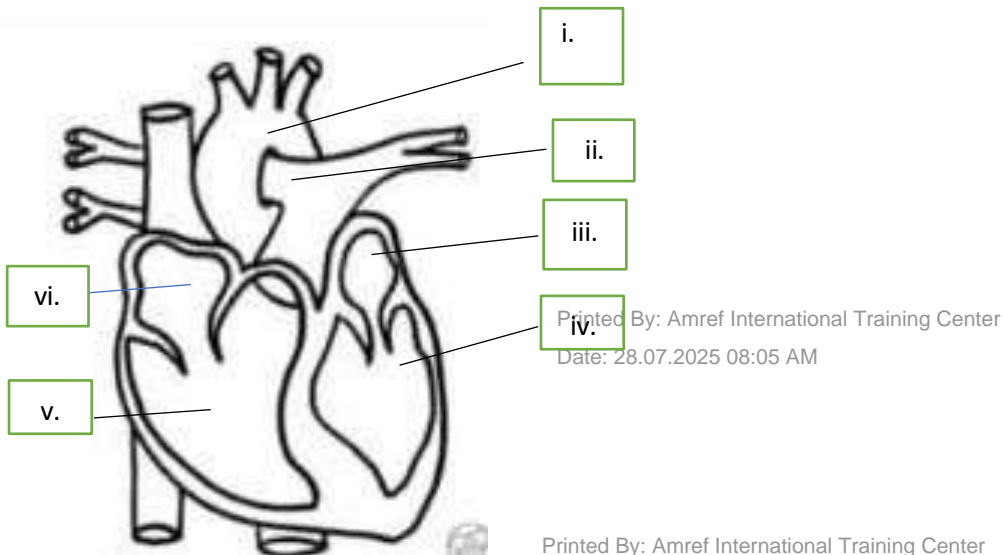
SECTION B (60 MARKS)

Attempt question TWELVE (12) and any other TWO (2) questions in this section

12. Mr. K attended a birthday party where food was served in plenty. The same evening, he started experiencing stomach upset and bloating. He visited the doctor who advised him to take some pain relief medication and drink a lot of water to ensure digestion process is complete.

- a) Explain THREE importance of saliva in food digestion. (6 Marks)
- b) Mention FOUR enzymes that assist in digestion process. (4 Marks)
- c) Describe THREE diseases and disorders of the digestive system. (10 Marks)

13. The apex of the heart rests on the superior surface of the diaphragm and points toward the left hip. The diagram below illustrates some major parts of the Human heart



- a) Name the parts labelled (i-vi) above. (6 Marks)
- b) Describe the THREE blood vessels? (6 Marks)
- c) Mention THREE importance of valves in the human's heart? (3 Marks)
- d) Identify FIVE functions of blood. (5 Marks)

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14. Body planes are imaginary surfaces or planes lines that divide the body into sections which helps for further identification of specific areas of the body.

a) Describe FIVE planes of the body. (10 Marks)

b) Explain the organization of the human body from the smallest unit. (10 Marks)

15. The skin is one of the largest organs of the body in surface area and weight. The skin performs various activities to ensure that the body is well taken care of in all aspects.

a) State TWO layers of the skin. (2 Marks)

b) Describe SIX functions of the skin. (12 Marks)

c) Nails are modifications of skin. They are made of hard keratin and are very important in conducting day to day activities while complementing other body parts. Explain THREE functions of nails. (6 Marks)

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