

091905T4HRI

HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 5

HE/OS/HR/CC/01/5/A

Apply Human Anatomy and Physiology

March/April 2025



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

WRITTEN ASSESSMENT

Printed By: Amref International Training Center

Date: 04.04.2025 11:53 AM

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. Answer **all questions in section A, question 12** and **Any TWO Questions in Section B**
4. Candidates are provided with a separate answer booklet
5. **DO NOT** write on this question paper.

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)

Answer ALL the questions in this section.

1. Respiratory system forms an integral part of body. Outline FOUR organs of the respiratory system. (4 Marks)
2. The blood serves as an important fluid in the body. State THREE functions of the blood. (3 Marks)
3. The human body has long bones and short bones. List FOUR examples of long bones in the human body. (4 Marks)
4. Recall FOUR basic types of tissues found in the human body. (4 Marks)
5. Human nervous system is considered the body's command center.
 - a) List the TWO branches of the nervous system. (2 Marks)
 - b) Recall THREE diseases of the nervous system. (3 Marks)
6. Water constitutes the largest percentage of blood plasma. State FOUR uses of water in human body. (4 Marks)
7. Thermoregulation is a process that allows your body to maintain its core internal temperature. State FOUR ways on how our bodies respond to heat. (4 Marks)
8. Salivary glands are one of the accessory organs of the digestive system. List THREE types of salivary glands found in human beings. (3 Marks)
9. Outline THREE functions of carbohydrates in the body. (3 Marks)
10. A client is admitted in the burns surgical unit following a fire accident. Name three functions of the skin that she may lose. (3 Marks)
11. Outline THREE layers of the Integumentary system. (3 Marks)

SECTION B (60 MARKS)

Answer question 12 and Any TWO Questions in This Section

12. Patient X was invited to a party by a friend where he was offered food and glass of milk. After returning home he started experiencing stomach upsets, he was referred to a nearby hospital for treatment after the doctor's examination he was diagnosed with lactose intolerance.

- a) Define the term digestion. (2 Marks)
- b) Highlight FOUR enzymes involved in digestion of food. (4 Marks)
- c) Explain TWO structural adaptation of the stomach to its function (4 Marks)
- d) Name FOUR parts of the human digestive system. (4 Marks)
- e) Explain THREE adaptation of the mouth to its digestive functions. (6 Marks)

13. Human heart plays key role in making circulatory system complete.

- a) List SIX parts of human heart (6 Marks)
- b) Describe SEVEN adaptations of the mammalian heart to its functions. (14 Marks)

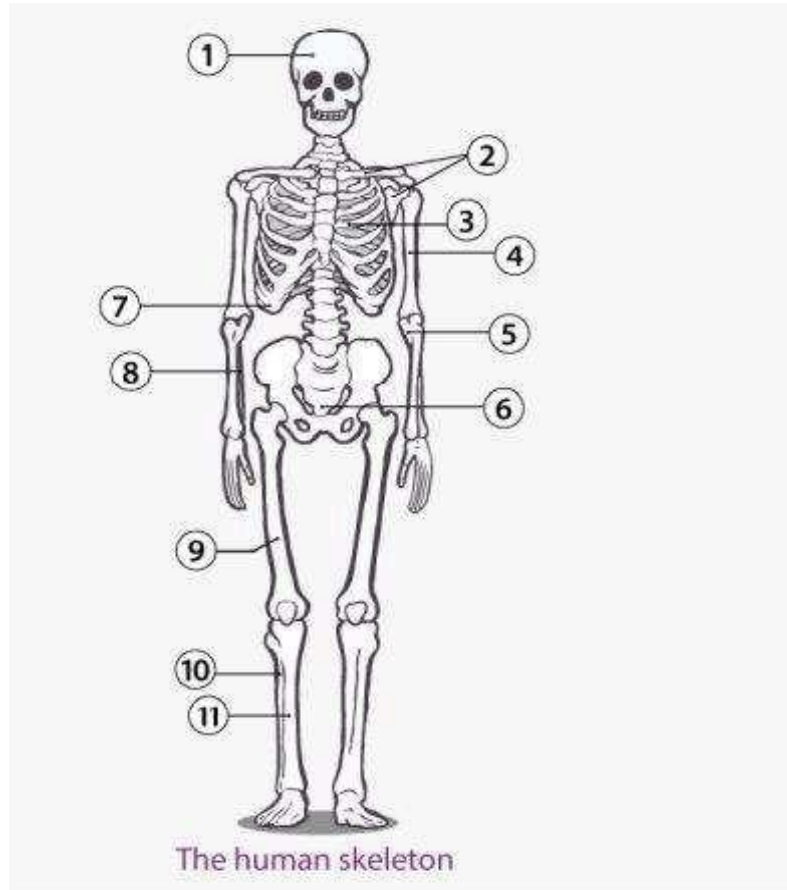
14. Human reproductive system is vital as it ensures survival of species

- a) Using a well labeled diagram, demonstrate the anatomy of female reproductive organ (10Marks)

- b) Explain functions of FIVE parts of the diagram in female reproductive system.

(10 Marks)

15. Human skeletal system is vital as it forms the body's central framework. Use the diagram below to answer the questions that follows.



- a) Name the part 1 to 10 of the above diagram (10 Marks)
- b) Explain FIVE functions of the human skeletal system (10 Marks)