

Diploma in Health Records and IT

Apply Human Anatomy and Physiology

HE/OS/HR/CC/01/6/A

July/August 2026



AMREF INTERNATIONAL TRAINING CENTER

WRITTEN ASSESSMENT

Time: 2 HOURS

INSTRUCTIONS TO CANDIDATE

1. You have **TWO** hours to answer all the questions.
2. Marks for each question are indicated in the brackets.
3. The paper consists of **TWO** sections: A and B.
4. Do not write on the question paper.
5. A separate answer booklet will be provided.

This paper consists of FIVE (5) printed pages

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

SECTION A: SHORT ANSWER QUESTIONS (40 MARKS)

Attempt ALL Questions

1. A pathology laboratory technician is examining tissue samples from a patient.

Define the following terms:

- i. Cell
- ii. Tissue
- iii. Organ
- iv. Membrane

(4 Marks)

2. During a histology practical session, students observe epithelial tissue under a microscope.

State FOUR functions of epithelial tissue in the human body.

(4 Marks)

3. A clinician suspects tissue damage following a severe burn injury. Identify FOUR major types of tissues found in the human body.

(4 Marks)

4. A patient presents with a fractured femur after a road traffic accident. State FOUR functions of the skeletal system.

(4 Marks)

5. During a nutrition assessment, a patient complains of poor digestion and nutrient absorption.

Mention FOUR organs of the digestive system involved in digestion.

(4 Marks)

6. A nurse is educating community members about body defense mechanisms. State FOUR functions of the lymphatic/immune system.

(4 Marks)

7. A patient is diagnosed with diabetes mellitus. Identify FOUR endocrine glands found in the human body.

(4 Marks)

8. During a respiratory disease outbreak, community health workers educate residents on respiratory health. State FOUR functions of the respiratory system.

(4 Marks)

9. A medical officer is documenting causes of morbidity in a community. Differentiate between communicable diseases and non-communicable diseases using two examples for each category.

(4 Marks)

10. A community health volunteer identifies a patient requiring specialized treatment. Outline FOUR levels of the referral structure in Kenya.

(4 Marks)

SECTION B: LONG ANSWER QUESTIONS (60 MARKS)

Attempt ANY THREE Questions

11. A laboratory scientist receives a biopsy specimen from a patient suspected of having cancer.

i. Describe four functions of human cells.

(8 Marks)

ii. Explain three relationship between cells, tissues, organs and organ systems. (6 Marks)

iii. Discuss three disorders associated with abnormal cell growth and tissue development. (6 Marks)

12. A 55-year-old patient is admitted with hypertension and signs of heart failure.

i. Describe the four major structures of the cardiovascular system. (8 Marks)

ii. Explain the three functions of the cardiovascular system in maintaining homeostasis. (6 Marks)

iii. Outline the three effects of cardiovascular disorders on body functions and suggest appropriate preventive measures. (6 Marks)

13. A community health assessment reveals increasing cases of autoimmune diseases and cancers.

i. Differentiate between autoimmune diseases and cancers. (6 Marks)

ii. Explain the four causes of autoimmune diseases on body systems. (8 Marks)

iii. Evaluate three strategies that can be used in the community to reduce the burden of cancers and autoimmune diseases. (6 Marks)

14. A community health worker encounters several patients suffering from communicable and non-communicable diseases.

- i. Classify four common communicable and non-communicable diseases found in the community. (8 Marks)
- ii. Explain three importance of referrals in primary health care. (6 Marks)
- iii. Demonstrate the six steps involved in making an effective patient referral. (6 Marks)

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