



AMREF INTERNATIONAL UNIVERSITY

Qualification code :
Qualification : Community health assistant
Unit code : HE/CU/CH/BC/02/6/A
Unit of competency : Apply human anatomy and physiology

WRITTEN ASSESSMENT

INSTRUCTIONS TO CANDIDATE

1. You have **THREE 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

SECTION A: SHORT RESPONSE QUESTIONS (40) MARKS)

Answer all the questions in this section by writing down your responses in the spaces provided.

1. Differentiate between anatomy and physiology of organs and tissues (4marks)
2. Anatomically positions are universally accepted as the starting points for positional references to the body. Outline the anatomical positions (4marks)
3. State **TWO** disorders of musculoskeletal system as described in anatomy (4marks)
3. Blood is made up of various components, discuss two main functions of red blood cells in the body (4marks)
4. Pulmonary ventilation can be described as the movement of air into and out the lungs as in breathing. Discuss the inhalation as one of the phases of pulmonary ventilation (4marks)
5. The female reproductive system is made up of various parts, highlight the parts that enhance fertilization and implantation respectively (4marks)
6. State (2) major types of cells in the nervous system and their functions? (4marks)
7. Identify FOUR reasons why is it important to breathe through the nose than the mouth. . . . (4marks)
8. Name TWO bones that make up the skull with the type of the joint that is formed at their point of intersection (4 marks)
9. Give FOUR (4) functions of the urinary system (4marks)
10. The heart may experience different disorders. In your understanding of the heart physiology give four pathological conditions of the cardiac (4marks)

SECTION B: EXTENDED RESPONSE QUESTIONS (60 MARKS)

Select Any THREE questions in this section by writing down your responses in the spaces provided.

11. The skeletal system includes the bones, joints, cartilages and ligaments.

- a) What are the (5) functions of the skeletal system (10marks)
- b) A bone is a specialized connective tissue that has strength to stabilize the body. Discuss the (5) types of bones with their structure, location and examples (10marks)

12.

- a) The brain is one of the largest organs in the body and has some major divisions. Discuss the major divisions of the brain and their functions (10 marks)
- b) The sympathetic part of the autonomic nervous system acts as an accelerator for those organs needed to meet a stressful situation (fight-or-flight) response. Explain briefly FIVE (5) effects of impulses from the sympathetic nervous system (10 marks)

13. The gastrointestinal system is a major system in an organism

- a) With a well labeled diagram illustrate the anatomy of Gastrointestinal system (10 marks)
- b) Explain using examples of FOUR enzymes the digestion in the small intestine (10 marks)

15. Respiratory system plays a big role ensuring that gaseous exchange is made successful, discuss FIVE adaptations of this system to its functions (10 marks)

c) describe FIVE disorders and their etiological factors that are associated to this system(10marks)