



**JARAMOGI OGINGA ODONGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR TVET DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT**

**1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2024/2025 ACADEMIC YEAR**

**KISUMU CAMPUS**

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COURSE CODE: HDC 2124

COURSE TITLE: APPLY HUMAN ANATOMY AND PHYSIOLOGY IN COMMUNITY HEALTH WORKS

EXAM VENUE: STREAM: TVET Dip Comm Health &Dev)

DATE: EXAM SESSION:

TIME:

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**SECTION "A" (40 MARKS)**

**Answer all the questions in this section**

1. Groups of cells performing a similar function are referred to tissues. Outline FOUR types of human tissues. (4 marks)
2. Chewing is part of mechanical digestion that takes place in the mouth. Highlight FOUR importance of it. (4 marks)
3. Plasma is the liquid part of blood, list its TWO main components. (2 marks)
4. Pituitary gland is the chief gland in the endocrine system, state FIVE hormones produced by its anterior part. (5 marks)
5. Draw a well labeled diagram of the Nephron. (5 marks)
6. The nervous system contains the human brain, spinal cord, and nerves. The brain is segmented into different parts, responsible for different functions in the human body. Outline FOUR functions of the nervous system. (4 marks)
7. Healthy diet and physical exercise promote healthy blood vessels reducing the risk of cardiovascular diseases. State FOUR differences between arteries and veins. (4 marks)

8. As a community health worker, you have been educating the community on strategies to curb the spread of TB as a respiratory disorder. Highlight FIVE other respiratory disorders you would include in your training. (5 marks)
9. There has been development of new medication and technologies for cancer. Outline FOUR risk factors associated with cancer. (4 marks)
10. The lymphatic system is closely interrelated with circulatory diseases, outline THREE functions of the lymphatic system. (3 marks)

### **SECTION B (60 MARKS)**

**Answer Any THREE questions, each (20 marks)**

1. The skin is a very vital organ system in the body and has a high significance to our survival.
  - a) Draw a labeled diagram of the skin. (10 marks)
  - b) Outline FIVE functions of the skin. (10 marks)
2. Diseases in the community are broadly classified under communicable and non -communicable diseases.
  - a) Compare and contrast FIVE similarities and differences between communicable diseases and non-communicable diseases. (10 marks)
  - b) Explain FIVE strategies you will use as a CHA in controlling cases of non-communicable diseases in your community. (10 marks)
3. Uterine cycle, also called the menstrual cycle relates to changes occurring in the endometrium of the uterus that are induced by female sex hormones. Describe the THREE phases of menstrual cycle.
  - a) Menstrual phase (6 marks)
  - b) Proliferative phase (7 marks)
  - c) Secretory phase (7 marks)
4. A) Discuss FOUR major organs of the digestive system and THREE accessory organs. (15marks)
  - b)List FIVE main functions of the digestive system. (5marks)
5. A) Describe the nerve supply to the heart. (10 marks)
  - b)Discuss the factors affecting heart rate. (10 marks)

