



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

**UNIVERSITY EXAMINATION FOR DEGREE IN PUBLIC HEALTH/  
COMMUNITY HEALTH AND DEVELOPMENT**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2013/2014 ACADEMIC YEAR**

**CENTER: MAIN CAMPUS**

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**COURSE CODE:** HCD 3111  
**COURSE TITLE:** INTRODUCTORY TO HUMAN ANATOMY  
**EXAM VENUE:** STREAM: BSc. Public Health/Community Health & Devt.  
**DATE: 04/12/2013** **EXAM SESSION: 9.00-11.00 AM**

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**Instructions:**

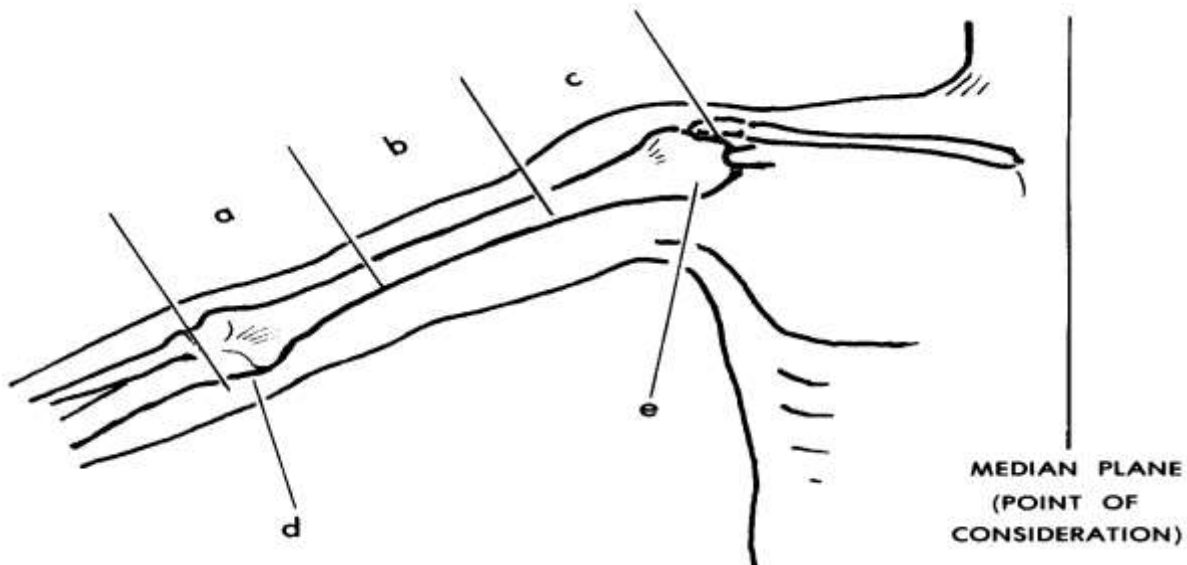
- 1. Answer ALL questions in Section A and ANY other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**SECTION A: ANSWER ALL THE QUESTIONS**

**1. What kind of anatomical study is described by each of the items below? (4 Marks)**

- a) Study of structures that cannot be seen with the unaided eye
- b) Study of relationships between functions and structures:
- c) Study of the nervous system.
- d) Study of organ systems.

**2. In figure below three portions of the arm are marked a, b, and c. The two ends of the arm are marked d and e. The portion marked a is the..... third. The portion marked c is the..... third. The end marked d is the..... end. The end marked e is the..... end.**



(4 Marks)

**3. What are the most common types of tissues? (4 Marks)**

- a. ....
- b. ....
- c. ....
- d. ....

**4. Name the four major types of connective tissue (CT) (4 Marks)**

5. Each lung is encased in a serous cavity called the ..... The heart lies in a serous cavity called the .....The intestines move freely within the.....cavity. (3 Marks)

6. Explain four functions of the human skeleton? (4 Marks)

7. What are four types of bones according to shape? (4 Marks)

8. Define the following (3 Marks)

a) a neurovascular bundle?

b) a motor point?

c) a motor unit?

**SECTION B: Answer any TWO (2) questions**

9. a) Name the regions of the vertebral column and give the number of vertebrae in each region. (10 Marks)

b) Name and describe three classifications of synovial joints. Along with each, name common sub classifications. (10 Marks)

10. a) In the first column below, name a general segment or part of a member. In the second column, name bones or bone groups which are found in each segment of the upper member. In the third column, name bones or bone groups which are found in each segment of the lower member. (16 Marks)

PART	UPPER MEMBER	LOWER MEMBER
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a. ....	.....	.....
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b) Explain four functions of the human skeleton? (4 Marks)

11. a) Name and briefly describe the three major subdivisions of the human brain; name and locate the four ventricles and their connecting channels. (8 Marks)

b) Name and identify the main arteries and veins of the brain and briefly describe the blood supply of the spinal cord. (6 Marks)

c) Describe the formation of cerebrospinal fluid (CSF) and the path of CSF flow. (6 Marks)

12. Describe the location, structure, and hormone(s) for each of the following: (20 Marks)

a. The thyroid gland.

b. The parathyroid glands.

c. The pancreatic islets.

d. The suprarenal glands.