



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

**UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN COMMUNITY
HEALTH AND DEVELOPMENT**

1st YEAR 1st SEMESTER 2015/2016

EXAM CENTRE: MAIN

COURSE CODE: HCD 3111

COURSE TITLE: INTRODUCTION TO HUMAN ANATOMY

EXAM VENUE: STREAM

DATE: EXAM SESSION:

TIME HOURS

Instructions:

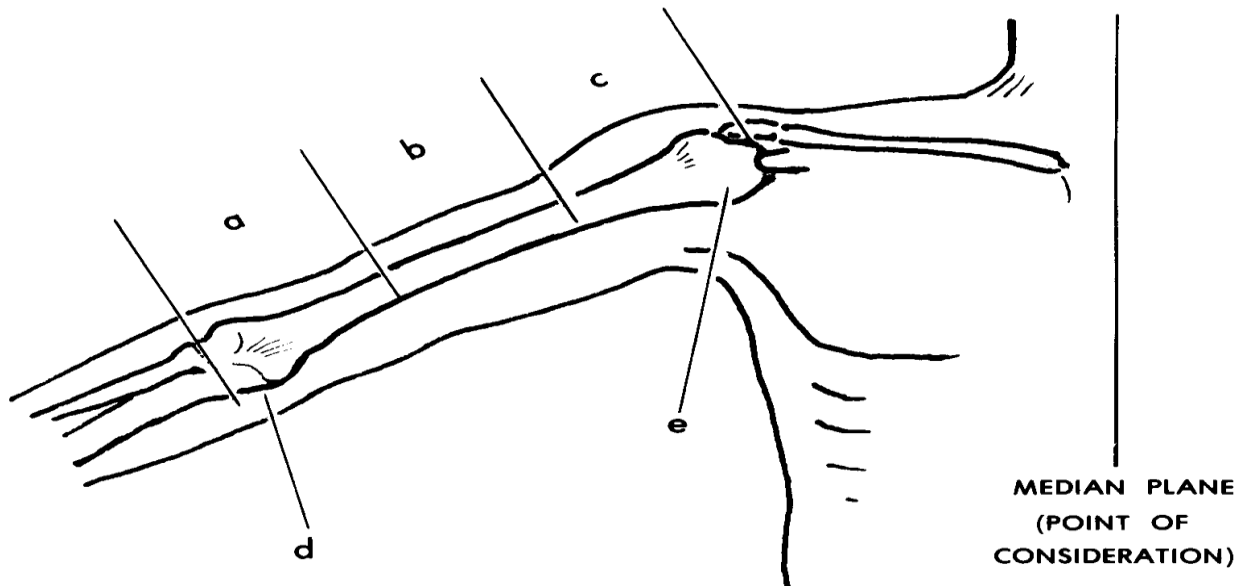
- 1. Answer all questions in section A and any other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A Answer all questions in this section (30 marks)

1. Define the following terms? (4 Marks)

- a. Functional anatomy
- b. Gross anatomy
- c. Organ system
- d. Neuroanatomy

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. State FOUR common types of tissues (4 Marks)

4. Define the following planes of the body (3 Marks)

- a. Frontal plane
- b. Sagittal plane
- c. Horizontal plane

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 Questions (40 Marks)

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.
(10 Marks)

10. Describe briefly the structure of the human skin (20 marks)

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

- a.** The thyroid gland.
- b.** Pituitary gland.
- c.** The pancreatic islets.
- d.** The suprarenal glands.

12. a) Name and give location of the four ventricles and their connecting channels. (14Marks)

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