



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
PUBLIC HEALTH / COMMUNITY HEALTH AND DEVELOPMENT**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**NAIROBI CITY LEARNING CENTRE**

**E- LEARNING**

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**COURSE CODE: HCD 3111**

**COURSE TITLE: INTRODUCTION TO HUMAN ANATOMY**

**EXAM VENUE:**

**STREAM: (BCHD)**

**DATE:**

**EXAM SESSION:**

**TIME: 2.00 HOURS**

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**INSTRUCTIONS:**

- 1. Answer Section A (COMPULSORY) 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

1. Define the directional terms as used in anatomy; caudal, ventral, dorsal. (3 MKS)
2. Explain what is meant by medial, proximal and distal. (3 MKS)
3. List three Axial body parts. (3 MKS)
4. Draw a diagram and identify six body regions. (3 MKS)
5. Outline three functions of plasma membrane. (3 MKS)
6. State three types of connective tissue proper. (3 MKS)
7. List three types of cartilage. (3 MKS)
8. State three functions of hair. (3 MKS)
9. List three lymphoid tissues. (3 MKS)
10. State three functions of skeletal muscles. (3 MKS)

## Section B *answer any two questions*

11. A. state three functions of a muscle.(3 MKS)  
B. State five physiological characteristics of a muscle (3 MKS)  
C. Explain five principal actions of the muscles, giving suitable examples. (10 MKS)  
D. List four muscles of the facial expression. (4 MKS)
12. A. Name five spinal nerves according to point of issue, stating how many in a point. (10 MKS)  
B. List four neurotransmitters. (4 MKS)  
C. Describe the division of central nervous system. (6 MKS)
13. A. Draw a cross sectional diagram of a skin. ( 7 MKS)  
B. Outline five functions of a skin. (10 MKS)  
C. State three factors that determine the colour of skin. (3 MKS)