



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

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**

**PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT**

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

**MAIN CAMPUS**

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**COURSE CODE:** HCB 1105

**COURSE TITLE:** INTRODUCTION TO HUMAN ANATOMY  
**AND PHYSIOLOGY**

**EXAM VENUE:** STREAM: BSc Public/ Comm. Hlth & Dev

**DATE:** EXAM SESSION:

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section A and 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 30MKS

### Answer all questions

1. Define the following terms ( 1 mark each )
  - a) Human Anatomy
  - b) Human Physiology
  - c) Homeostasis
2. Describe briefly the structural complexity of the human body (4 marks)
3. List the key symptoms of hyperthyroidism (3 marks)
4. List the functions of catecholamines (2 marks)
5. Describe briefly how the heart is adapted to its functions (3 marks)
6. Describe briefly how the human brain is protected (4 marks)
7. List the Neuroglia cells in Central Nervous System (4 marks)
8. Describe three phases of gastric emptying (3 marks)
9. List the major methods of measuring the cardiac output ( 4 marks)

## SECTION B 40MARKS

### Answer any TWO questions from this section

1. Discuss in detail the anatomy and physiology of the liver (20 marks)
2. Discuss the stages of blood clotting (20 marks )
3. Discuss in detail the anatomy and physiology of the male reproductive organ (20 marks)
4. Discuss 5 disorders of the adenohipophyses (20 marks)