



**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 2023/2024**

**KISUMU**

---

**COURSE CODE: HCB 1105**

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

**EXAM VENUE: STREAM**

**DATE:**

**EXAM SESSION:**

**TIME:**

---

**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 30MKS**

**Answer all questions**

1. Describe briefly the anatomy of the pituitary gland (5 marks)
2. List the functions of corticosteroids (4 marks)
3. List the key symptoms of hyperthyroidism (3 marks)
4. Describe briefly how the human brain is protected (4 marks)
5. List the Neuroglia cells in Central Nervous System (4 marks)
6. Describe 2 major causes of diabetes (4 marks)
7. Describe three phases of gastric emptying (3 marks)
8. 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 modifiable and non modifiable risk factors of stroke and heart attack (20 marks)
3. Discuss in detail the anatomy and physiology of the heart (20 marks)
4. Discuss 5 disorders of the adenohypophyses (20 marks)