



**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**

1ST YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

KISUMU

COURSE CODE: HCD 3121

COURSE TITLE: MEDICAL PHYSIOLOGY

EXAM VENUE: STREAM

DATE: 29/4/19

EXAM SESSION: 9.00 – 11.00AM

TIME: 2.00 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 30MKS

Answer all questions

1. Describe briefly two disorders of the hypothalamo-hypophyseal system (4 marks)
2. List the functions of angiotensin II (4 marks)
3. List the key symptoms of hyperthyroidism (3 marks)
4. Describe the functions of the corticosteroids. (4 marks)
5. Describe briefly ways of preventing spina-bifida meningocele (3 marks)
6. Describe 2 major causes of jaundice (4 marks)
7. Describe three phases of gastric emptying (3 marks)
8. List the major methods of measuring the cardiac output (5 marks)

SECTION B 40MARKS

Answer any TWO questions from this section

1. Discuss in detail the homeostasis of hypovolemia and dehydration (20 marks)
2. Discuss the modifiable and non modifiable risk factors of stroke and heart attack (12 marks)
 - b) Discuss the spinobulbospinal reflex of micturition (8 marks)
3. Discuss in detail 5 functions of the liver (20 marks)
4. Discuss 5 disorders of the adenohypophyses (20 marks)