



**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 LEARNING CENTRE

COURSE CODE: HCD 3121

COURSE TITLE: MEDICAL PHYSIOLOGY

DATE: 12/08/2019

EXAM SESSION: 9.00 – 11.00 A.M

TIME: 2 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. Discuss briefly the spinobulbospinal reflex of micturion. (5 marks)
2. Define the following terms (2 marks each)
Blood volume
Cardiac index
3. Describe briefly the Renin-angiotensin-aldosterone system. (6 marks)
4. What is the normal blood calcium level? (1 mark)
5. describe the two major types of dwarfism. (4 marks)
6. describe briefly the major disorder of adrenocorticotrophic hormone. (3 marks)
7. List 3 major functions of the lymphatic system. (3 marks)
8. Describe the difference between the limbic system and analgesia system.(4 marks)

SECTION B 40MARKS

Answer any TWO questions from this section

1. Discuss the cross extensor reflex in the right lower limb. (20 marks)
2. Discuss the acid base balance. (20 marks)
3. Discuss in detail 5 functions of the Liver. (20 marks)
4. Discuss 2 major disorders of the nervous system. (20 marks)