

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

1STYEAR 2nd SEMESTER 2015/2016 ACADEMIC YEAR

KISUMU LEARNING CENTER

COURSE CODE: HCD 3121

COURSE TITLE: MEDICAL 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 30MARKS

Answer all questions

1.	Which structure of the eye houses the photoreceptors	(1marks)	
2.	Differentiate between	(2marks each)	
	a) Somatic sensory system		
	b)Visceral sensory system		
3.	What is an oligodentrocytes, what does it do? (2marks)	s)	
4.	a) Define glomerular filtration rate GFR (1mark)		
	b) Enlist the determinants of GFR. (3marks)		
5.	Explain the meaning and function of the electrocardiogram. (2	2marks)	
6.	Give a summary of actions of estrogens(4marks)		
7.	a) What is a cardiac index (2marks)		
	b) List methods of measuring cardiac output (2marks)		
8.	8. Describe 3 functions of the lymphatic system (3marks)		
9.	Describe osmoregulation by anti-diuretic hormone ADH	(3marks)	
10	Describe the three phases of secretion of gastric juice	(3marks)	

SECTION B 40MARKS

Answer any TWO questions from this section

- a) Explain how the sound travelled through ear and get interpreted in the brain.
 (12marks)
 - b) Discuss the factors that regulate gastric emptying (8marks)
- 2. a) Discuss in detail the anatomy of the male reproductive system and functions of the various parts.(12marks)
 - b)Discuss the homeostasis of calcemia

(8marks)

- 3. a) Using a diagram describe the structure of the eye and functions (12marks)
 - b) Describethe differences between obstructive and hemolytic jaundice(8marks)
- 4. a) Discuss the features of metabolic acidosis and compensation of acidosis(12mark)
 - b) Discuss the factors which increase insulin secretion(8marks)