



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR CERTIFICATE IN COMMUNITY HEALTH AND DEVELOPMENT

1ST YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

KISII CAMPUS

COURSE CODES: HCD 1111

COURSE TITLE: INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

EXAM VENUE: **STREAM: (Cert. Comm. Hlth & Dev)**

DATE: **EXAM SESSION:**

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

QUESTION ONE (30marks)

- (a) Define the following terms. (3marks)
- i. Tissue
 - ii. Cell
 - iii. Organ
- (b) Briefly discuss three functions of cerebro spinal fluid. (3marks)
- (c) Discuss three characteristics of living things. (3marks)
- (d) Discuss three types of blood cells and their functions. (3marks)
- (e) Differentiate between axon and dendrites. (3marks)
- (f) Briefly discuss three factors that may cause high blood pressure. (3marks)
- (g) Enlist three organs involved in digestive system and their functions. (3marks)
- (h) Explain the structure of the lymph node. (3marks)
- (i) Discuss levels of organization in human anatomy and physiology. (3marks)
- (j) Enlist functions of the liver. (3marks)

SECTION: B

Question two

Draw and label a typical human cell and explain functions of any five organelles. (15marks)

Question three

Discuss Homeostasis. (15marks)

Question four

- (a) Distinguish between systemic and pulmonary circulation. (3marks)
- (b) Discuss the functions of the skin. (12marks)

Question five

- (a) Discuss the exchange of gases in the lungs. (5marks)
- (b) Discuss the stages of digestion. (10marks)