

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS 2020/2021**

**YEAR 1 SEMESTER 1 EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH**

**IPH 2103: HUMAN ANATOMY**

**DATE: APRIL 2021 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (48 MARKS COMPULSORY) AND ANY OTHER ONE QUESTION (22 MARKS)**

**QUESTION ONE (48 MARKS)**

a) Giving examples, explain the following terms as used in human anatomy:

i) Anterior (2 marks)

ii) Proximal (2 marks)

iii) Distal (2 marks)

b) Giving examples, distinguish between cells and tissues in the human body (6 marks)

c) Describe the two structures of the central nervous system, showing their functions

(6 marks)

d) Demonstrate the functions of the large intestine (6 marks)

e) Respiratory system in a human body plays a key role. Support the statement (6 marks)

f) Using a diagram, describe the anatomy of a i.e. kidney (6 marks)

g) Describe the anatomy of the penis, male organ for sexual intercourse (6 marks)

h) Illustrate the four (4) chambers of the heart and indicate their functions (6 marks)

**QUESTION TWO (22 MARKS)**

a) Highlight the integral parts of the endocrine system (7 marks)

b) Explain embryology (2 marks)

c) Explain the function of the ureters and their adaptations (4 marks)

d) Differentiate the blood vessels in the circulatory system (9 marks)

**QUESTION THREE (22 MARKS)**

a) Describe the functions of any three female reproductive internal organs (9 marks)

b) Explain the following parts of the respiratory system:

i) Mouth and nose (2 marks)

ii) Throat (2 marks)

iii) Sinuses (2 marks)

iv) Trachea (2 marks)

c) Describe the function of the kidneys (6 marks)

**QUESTION FOUR (22 MARKS)**

a) Differentiate the many parts of the small intestine and their roles (9 marks)

b) Explain the functions of the musculoskeletal system (5 marks)

c) Using a pyramid shape structure, illustrate and explain the functional organization of the human body (8 marks)