



# **KISII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS**

**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF  
BACHELOR OF PHARMACY  
SECOND SEMESTER, 2023/2024  
MAY-AUGUST, 2024**

**MEDS 210: HUMAN ANATOMY 2**

**STREAM: Y2S2**

**TIME: 3 HOURS**

**DAY: WEDNESDAY, 9.00-12.00PM**

**DATE: 14/08/2024**

**INSTRUCTIONS**

***1. Do not write anything on this question paper.***

**SECTION A: ANSWER ALL QUESTIONS**

**QUESTION ONE**

- a) Name the chromophilic cell types of the anterior pituitary gland and identify their products. (5 marks)
- b) Describe the microscopic organization of the thyroid gland. (5 marks)

**QUESTION TWO**

- a) List the layers of the retina in order from the innermost to the outermost. (5 marks)
- b) Describe the microscopic organization of the spleen. (5 marks)

**QUESTION THREE**

- a) Outline evidence in support of the claim that microscopic organization of the duodenum reflects adaptation to function. (5 marks)
- b) Name the secondary vesicles of the cranial neural tube and state their fate. (5 marks)

**QUESTION FOUR**

Outline formation and fate of the heart tube. (10 marks)

**QUESTION FIVE**

Describe the position, borders, surfaces and relations of the liver. (10 marks)

### **QUESTION SIX**

Describe the walls, openings, relations and contents of the orbit (10 marks)

### **QUESTION SEVEN**

- a) State the relations of the right kidney. (9 marks)
- b) Outline the microscopic organization of the adrenal gland (5 marks)
- c) Describe the process of development of the kidney. (6 marks)

## **SECTION B: ANSWER ONE QUESTION ONLY**

### **QUESTION EIGHT**

- a) Describe the relations and parts of the prostate gland. (9 marks)
- b) Name the parts of the urethra and state their extents. (4 marks)
- c) State the contents of the spermatic cord. (7 marks)

### **QUESTION NINE**

- a) Discuss the microscopic organization of the oesophagus. (6 marks)
- b) Describe the microscopic organization of the lymph node (6 marks)
- c) Identify two disorders of collagen synthesis and state some clinical features. (4 marks)
- d) State four distinguishing features of epithelia. (4 marks)

### **QUESTION TEN**

- a) Describe the embryologic development of the eye, including congenital anomalies. (10 marks)
- b) Describe the embryologic development of the uterus, uterine tubes and vagina, with comments on congenital anomalies. (10 marks)