



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

**UNIVERSITY EXAMINATION FOR:**

BACHELOR OF SCIENCE COMMUNITY HEALTH (BSCH-15S)

**AAB 4110 : HUMAN ANATOMY AND PHYSIOLOGY II PAPER I**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Select Month Pick Year

## **Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of Choose No questions. Attempt Choose instruction.

**Do not write on the question paper.**

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## **Question ONE**

- a) Name two functions of Oral cavity (2marks)
  
- b) Name the three functions of the spleen (3marks)
  
- c) What is spermatogenesis? (2marks)
  
- d) Draw a well labeled diagram of a mammalian sperm cell (4marks)
- e) Name two functions of the testosterone (2 marks)

- f) Name the two systems that work together in homeostatic mechanism in our body (2marks)
- g) Name the three major functions of the stomach (3marks)
- h) Differentiate between Isotonic contraction and Isometric contraction (4marks)
- i) State the difference between cardiac muscle cells and skeletal muscles (4marks)
- j) Name the functions of Hydrochloric acid in the stomach (4marks)

### **Question TWO**

Discuss the structure and functions of the Nephron (20 marks)

### **Question THREE**

- a) Outline the differences between arteries and veins (14marks)
- b) Outline the functions of the connective tissue of the heart (6marks)

### **Question FOUR**

- a) Discuss the different parts of the adrenal glands and state the hormones secreted from each (8marks)
- b) Discuss the differences between somatic and autonomic nervous system (12marks)

### **Question FIVE**

- a) Outline the different types of capillaries and their location (8marks)
- b) Discuss the relationship between the hypothalamus and the pituitary gland (12marks)