



# Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

CERTIFICATE IN COMMUNITY HEALTH AND HIV MANAGEMENT  
(CCH13S)

AAB 1102: HUMAN ANATOMY AND PHYSIOLOGY

SEMESTER: EXAMINATIONS

SERIES: DECEMBER 2013

TIME: 2 HOURS

## **INSTRUCTIONS:**

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

*This paper consists of 2 PRINTED pages*

### Question ONE

- a) Complete the following **FOUR** ABO blood groups (4 marks)
- (i) Phenotype
  - (ii) Genotype
  - (iii) Antigen
  - (iv) Serum Antibody
- b) Highlight the characteristics of life (5 marks)
- c) (i) Define the term anatomical position (1 mark)
- (ii) Differentiate between axial and appendicular skeleton giving example in each case
- (iii) State the **TWO** main functions of appendicular skeleton (2 marks)
- d) Differentiate between the following :
- (i) Femur and Tibia bones (2 marks)
  - (ii) Benign and Malignant tumors (2 marks)
- e) Briefly explain effects of tumors in the human body system (5 marks)
- f) (i) Define the term Epithelial tissue (2 marks)
- (ii) Outline and comment briefly on the differences of the **FOUR** groups of simple epithelium (4 marks)

### Question TWO

Explain what type of tissue is blood and discuss on the functions of blood (15 marks)

### Question THREE

- a) Explain the **FOUR** stages of respiration (8 marks)
- b) Describe the structure of the respiratory tract (7 marks)

### Question FOUR

- a) Draw a well labelled diagram of a neuron (10 marks)
- b) Briefly comment on the structure and function of the neuron (5 marks)

### Question FIVE

Describe the functions of the liver (15 marks)