



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT
(DCH13S)

AAB 2108 : HUMAN ANATOMY AND PHYSIOLOGY I

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 3 PRINTED pages

Question ONE

- a) (i) Draw a well labelled diagram of the nephron (4 marks)
- (ii) Name the main types of tissues in the human body. (2 marks)
- b) State two hormones and their functions that are secreted by:
 - (i) Adrenal cortex (2 marks)
 - (ii) Adrenal medulla (2 marks)
- c) State four differences between the endocrine and the nervous system (4 marks)
- d) Explain four adaptation of the respiratory membrane to its function. (4 marks)
- e) List two structural differences between veins and arteries. (4 marks)
- f) Define the term physiology (2 marks)
- g) State four non-digestive functions of saliva (4 marks)
- h) List the four cavities in the body (2 marks)

Question TWO

- a) Describe the process of impulse transmission using a well labelled diagram (10 marks)
- b) (i) Briefly describe two types of nerves. (4 marks)
- (ii) List two types of neuralgia cell (1 mark)

Question THREE

- a) Describe the flow of blood through the heart using a well labelled diagram (10 marks)
- b) Briefly describe five diseases of the respiratory system (5 marks)

Question FOUR

- a) Using relevant examples in each case, describe positive and negative feedback mechanisms. (10 marks)
- b) Briefly describe two disorder of the uterine body in a female reproductive system (5 marks)

Question FIVE

- a) Explain five ways in which the human digestive system defends the body against infection **(10 marks)**
- b) Explain five functions of the human skeleton **(5 marks)**