

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

SUPPLEMENTARY/SPECIAL: EXAMINATIONS

SERIES: MARCH 2014

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

QUESTION ONE

a)	Draw a well0labeled diagram of the male reproductive system	(4 marks)	
b)	State two disorder of the female breast	(2 marks)	
c)	State four functions of the human stomach	(4 marks)	
d)	Explain the following phenomena		
	(i) No glucose is found in the urine of a healthy person	(2 marks)	
e)	State four adaptations of the small intestines to their functions	(4 marks)	
f)	Define the following terms		
	(i) Cell	(2 marks)	
	(ii) Tissue	(2 marks)	
	(iii) Organ	(2 marks)	
g)	State the events of interphase in mitosis	(4 marks)	
h)	State four functions of the connective tissues.	(4 marks)	

QUESTION TWO

a) With the aid of a well labelled diagram, describe the structure and function of the human skin

(10

marks)

b) Differentiate between keratinized and non-keratinized tissues (2 marks)

c) State the characteristics of neutrons that enables them to function

(3 marks)

QUESTION THREE

a) With the aid of a well labelled diagram, describe the flow of lymph fluid in the lymph node

(6

marks)

b) Indicate the function of the following organs in the body

(i) Spleen (2 marks)

(ii) Thymus gland (2

marks)

(iii) Bone marrow (2 marks)

c) State three differences between the endocrine and nervous system

(3 marks)

QUESTION FOUR

a) Describe the process of gaseous exchange between

(i)	Lungs and blood	(5 marks)
(ii)	Blood and body cells	(5 marks)
b) Expl	ain five functions of the human skeleton	(5 marks)

QUESTION FIVE

a) Briefly describe the main components of a homeostatic control mechanism and explain the role played by each
 (10 marks)

b) Describe the response of the body to an increase in body temperature (5 marks)