



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY AND HEALTH

(DCH 13M)

APH 2107 : ENTOMOLOGY, VECTOR AND PEST CONTROL

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 well labeled diagram of the lymph node (4 marks)
- b) Define the following terms
 - (i) Nephorone (2 marks)
 - (ii) Jaundice (2 marks)
- c) State the three layers of the heart tissue (3 marks)
- d) Indicate four functions of the kidneys (4 marks)
- e) State four functions of the female reproductive system (4 marks)
- f) State four adaptations of the respiratory membrane to their function (4 marks)
- g) Briefly compare the features of the endocrine and nervous system (4 marks)
- h) State three types of bones (3 marks)

QUESTION TWO

- a) Briefly discuss two diseases that affect
 - (i) Blood vessels (2 marks)
 - (ii) Heart (3 marks)
- b) Describe the flow of blood through the heart (10 marks)

QUESTION THREE

- a) Describe the location, structure and functions of the human lungs (9 marks)
- b) Name three organs that constitute the upper respiratory tract and briefly describe the structure and function of each (6 marks)

QUESTION FOUR

- a) State the role of each of the following endocrine hormone
 - (i) Renin (1 mark)
 - (ii) Insulin (1 mark)
 - (iii) Calcitonin (1 mark)
- b) Describe the composition and functions of the primary secondary and tertiary lymphoid tissues in a human body (12 marks)

QUESTION FIVE

- a) Name and describe the main components of the renal system stating their functions (10 marks)
- b) Explain how the human kidney regulates blood pressure (5 marks)

