Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT
(DCH13M)

AAB 2109 : HUMAN ANATOMY AND PHYSIOLOGY II

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) Define the following terms

        (i)   Nephrone   (1 mark)

        (ii)   Loop of henle   (2 marks)

        (iii)   Cardiac failure   (2 marks)

    (b) Draw a well labelled diagram of the mammalian Heart   (5 marks)

    (c) State three functions of the following

        (i)   Spleen   (3 marks)

        (ii)   Thymus gland   (3 marks)

    (d) The urinary system is made up of the following structures:-   (2 marks)

    (e) State **four** functions of the male reproductive system   (3 marks)

    (f) Briefly explain the exchange of gases at the respiratory membrane   (4 marks)

    (g) Name **two** type of lymphocytes found within the lymphatic tissues and state

       their functions   (4 marks)

Question TWO

    a) Briefly describe the cross-sectional structure of a human vein   (5 marks)

    b) Describe the location, structure and function of the human heart   (10 marks)

Question THREE

    a) State the roles of each of the following endocrine hormones

        (i)   Aldosterone   (1 ½ marks)

        (ii)   Norepinephrine   (1½ marks)

    b) Using relevant examples, describe the organization of the human lymphatic system (12 marks)

Question FOUR

    a) Name and describe the main components of the renal system, stating their functions (10 marks)

    b) Briefly describe the role of the human placentas during pregnancy   (5 marks)

Question FIVE

a) Briefly describe the cross-sectional structure of the human gastro–intestinal test (5 marks)

b) Describe the regulation of the human gastrointestinal tract   (10 marks)