



TECHNICAL UNIVERSITY OF MOMBASA
Faculty of Applied & Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

DIPLOMA IN COMMUNITY HEALTH

(DCH 14S)

AAB 2108: HUMAN ANATOMY AND PHYSIOLOGY I

(DCH 14S)

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: FEBRUARY 2015

TIME: 2 HOURS

INSTRUCTIONS:

- This paper consists of **FIVE** questions.
- Answer question **ONE (Compulsory)** and any other **TWO** questions.

This paper consists of Three printed pages.

QUESTION 1 (Compulsory)

- a) Draw a well a labelled diagram of mitochondrion and state its main function. (4 marks)
- b) i) Name **ONE** organ located in thoracic cavity. (1 mark)
ii) Outline **THREE** functions of human muscles. (3 marks)
- c) State **FOUR** components of blood plasma. (4 marks)
- d) Give **FOUR** function of human bones. (4 marks)
- e) State **FOUR** characteristics of living things. (4 marks)
- f) i) Name the **THREE** classifications of the cartilage. (3 marks)
ii) State one function of blood platelets. (1 mark)
- g) i) What do you understand by the term cardiovascular system? (2 marks)
ii) State **TWO** factors that influence the rate of heart beat. (2 marks)
- h) State **TWO** functions of the digestive system. (4 marks)

QUESTION 2

- a) Distinguish between a tissue and an organ. (4 marks)
- b) Name the **FOUR** basic types of tissues that make up the human body and describe the characteristics of each. (11 marks)

QUESTION 3

- a) State **SIX** functions of the digestive system. (6 marks)
- b) Describe the **THREE** pairs of salivary glands. (6 marks)
- c) List any **THREE** regions of the stomach. (3 marks)

QUESTION 4

- a) Define homeostatis. (2 marks)
- b) Name **THREE** components of homeostatic control mechanisms. (3 marks)
- c) Discuss the homeostasis regulation mechanism under the following headings.
i) Negative feedback mechanism. (5 marks)
ii) Positive feedback mechanisms. (5 marks)

QUESTION 5

- a) Describe functions of blood. **(10 marks)**
- b) Outline **FIVE** signs and symptoms of anaemia. **(5 marks)**