

# 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)

u)	Draw a well a labelled diagram of mitochondrion and state its main function.	(4 marks)
b)	<ul><li>i) Name ONE organ located in thoracic cavity.</li><li>ii) Outline THREE functions of human muscles.</li></ul>	(1 mark) (3 marks)
c)	State FOUR components of blood plasma.	(4 marks)
d)	Give <b>FOUR</b> function of human bones.	(4 marks)
e)	State <b>FOUR</b> characteristics of living things.	(4 marks)
f)	<ul><li>i) Name the <b>THREE</b> classifications of the cartilage.</li><li>ii) State one function of blood platelets.</li></ul>	(3 marks) (1 mark)
g)	<ul><li>i) What do you understand by the term cardiovascular system?</li><li>ii) State TWO factors that influence the rate of heart beat.</li></ul>	(2 marks) (2 marks)
h)	State TWO functions of the digestive system. (4 marks)	
QUESTION 2		
a)	Distinguish between a tissue and an organ.	(4 marks)
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b)	Name the <b>FOUR</b> basic types of tissues that make up the human body and describe the of each.	characteristics (11 marks)
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QU	of each.	
QU a)	of each.  UESTION 3	(11 marks)
<b>QU</b> <ul> <li>a)</li> <li>b)</li> </ul>	of each.  UESTION 3  State SIX functions of the digestive system.	(11 marks)
<b>QU</b> <ul> <li>a)</li> <li>b)</li> <li>c)</li> </ul>	of each.  JESTION 3  State SIX functions of the digestive system.  Describe the THREE pairs of salivary glands.	(11 marks) (6 marks) (6 marks)
<b>QU</b> <ul> <li>a)</li> <li>b)</li> <li>c)</li> </ul>	of each.  JESTION 3  State SIX functions of the digestive system.  Describe the THREE pairs of salivary glands.  List any THREE regions of the stomach.	(11 marks) (6 marks) (6 marks)
QU a) b) c) QU	JESTION 3  State SIX functions of the digestive system.  Describe the THREE pairs of salivary glands.  List any THREE regions of the stomach.  JESTION 4	(11 marks) (6 marks) (6 marks) (3 marks)

### **QUESTION 5**

a) Describe functions of blood. (10 marks)

b) Outline **FIVE** signs and symptoms of anaemia. (5 marks)