

MURANG'A UNIVERSITY OF TECHNOLOGY SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES

DEPARTMENT OF HEALTH SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR FIRST YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES MCH 114 – HUMAN ANATOMY AND PHYSIOLOGY DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. Answer question ONE any other two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A – ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

a)	State the five principles of cell theory.	(5 marks)
b)	State five examples of disorders that are inheritable.	(5 marks)
c)	Give five examples of organ system and name the organs involved in each.	(5 marks)
d)	Give five examples of completely heritable traits.	(5 marks)
e)	Define a tissue and name examples of human body tissues.	(5 marks)
f)	State the functions of skeletal system.	(5 marks)

SECTION B - ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

a)	Compare and contrast the eukaryotic	cells and prokaryotic cells.	(10 marks)
b)	Discuss the role and organs involved	in five organ system of human body.	(10 marks)

QUESTION THREE (20 MARKS)

a)	Describe with a prop	er well	labelled	diagram	the	mammalian	cell	and	state	its	role of the
	parts.										(10
	marks)										
b)	Explain the functions of a cell.				(5 marks)						
c)	Explain the functions	of the c	ell memb	rane.						(5 r	narks)

QUESTION FOUR (20 MARKS)

Discuss the cell organelles and their functions. (20 marks)