



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

FIRST YEAR FIRST TRIMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH**

COURSE CODE: HEM 121

COURSE TITLE: HUMAN ANATOMY AND PHYSIOLOGY

DATE: MONDAY 25TH APRIL, 2022 **TIME:** 9:00-11:00AM

INSTRUCTIONS TO CANDIDATES

This paper consists of TWO sections:

- i. Section A – Short Answer Question
- ii. Section B – Long Answer Question.

Answer all questions section A and any TWO in section B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over



Section A: Short Answer Questions Answer ALL (40 marks)**Question ONE**

- a. Outline the subdivisions of anatomy (4 marks).
 - b. Explain the structural layers of the stomach (4 marks).
 - c. With appropriate example explain the classification of muscular tissues (4 marks).
 - d. Explain the functions of integument (4 marks).
 - e. Explain the structures in sarcomere (4 marks).
 - f. Describe the functions of skeletal system (4 marks).
 - g. Explain the process of fertilization in embryology (4 marks).
 - h. Explain different nerve plexus in peripheral nervous system (4 marks).
 - i. Outline the process of spermatogenesis (4 marks).
 - j. Outline major endocrine glands (4 marks).
2. Discuss the anatomical classes of the brain (15 marks).
 3. Discuss the electrical conduction system in the heart (15 marks).
 4. Discuss the stages in embryological development (15 marks).