



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MASTERS

UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST TIMESTER EXAMINATIONS

FOR THE DEGREE OF MASTER OF SCIENCE IN NURSING

COURSE CODE: NNR 8115

COURSE TITLE: ADVANCED PHYSIOLOGY

MAIN EXAMINATION

DATE: MONDAY 11TH DECEMBER, 2023

TIME: 8-11AM

INSTRUCTIONS TO CANDIDATES

Answer all Questions

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

- 1. Name the adrenal cortical hormones (10 marks).
 - a. Describe the actions of glucocorticoids and how its regulated (10 Marks)
- 2. List the hormones that regulate blood glucose level (5 marks).
 - a. Discuss the role of insulin in regulating blood glucose levels (15 mrks)
- 3. Describe how the structure of the small intestine facilitates optimum digestion and absorption of nutrients (20 Marks)
- 4. Mention the stages of Erythropoiesis (10 marks)
 - a. Discuss the factors necessary for erythropoisesis (10 mrks)
- 5. Draw the structure of the nephron state the functions of each part (10 marks)
 - a. Describe and explain how the kidney regulates the volume of body fluids (10 Marks)