



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH
WITH INFORMATION TECHNOLOGY**

MAIN CAMPUS

PHT 111: ANATOMY AND PHYSIOLOGY

Date: 19th January, 2016

Time: 8.30 - 10.30 pm

INSTRUCTIONS:

- Write your University Registration Number on every Answer Booklet you use.
- Do not write your name on any paper you use.
- The time allowed for this paper is TWO (2) hours.
- The questions are set out in TWO (2) sections, A and B.
- Read carefully the additional instructions preceding each section.



Section A

Answer all questions in this section

Each question carries 5 marks [total 30 marks]

1. Describe the different types of white blood cells and their key functions.
2. The plasma proteins are the most abundant dissolved substances in the plasma. Describe the different components and their functions.
3. Describe the key roles of meiosis and mitosis events in the human body and the significance of these to health.
4. Sketch out and name the main parts of a kidney nephron
5. List any four of the organs found within the thoracic cavities and identify their functions

Section B: 40 Marks

Answer any four questions from this section.

Each question carries 10 marks

6. Describe the structure and functions of the plasma cell membrane.
7. Outline the organization of the nervous system and outline the respective functions of each sub-division.
8. Describe the organs found in each of the ventral body cavities.
9. A- Identify the accessory organs of digestion and their anatomical locations;
B- Discuss how the liver and pancreas regulate blood sugar.
10. Identify any five parts of the digestive system and describe their functions
11. Describe the key functions of the urinary system.
12. A. - Describe the anatomical position of the thyroid gland.
B. - Explain the effects of hormones produced by the thyroid and parathyroid glands.