



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (ENVIRONMENTAL HEALTH)

HEH 102: HUMAN ANATOMY AND PHYSIOLOGY

DATE: Monday 26th March 2012

TIME: 2.00p.m – 4.00p.m

INSTRUCTIONS

SECTION II: (20 MARKS)

ANSWER ALL QUESTIONS

1. a) Describe the structure of the Urinary Bladder. [4marks]
- b) Describe lymph. [3marks]
- c) Outline the different Types of Sensory Receptors. [5marks]
- d) Giving examples in each case, describe the structure of four general categories of bones. [4marks]
- e) Illustrate the major cavities of the human body. [4marks]

SECTION II

This has two parts. Answer all questions in part I, and any 2 in part II

PART 1 (20 MARKS)

2. a) Discuss the major functions of the digestive system. [15marks]
- b) Discuss the following hormones.
 - i) Luteinizing Hormone. [2marks]
 - ii) Follicle-Stimulating Hormone. [1mark]
- c) Describe the structure and function of the glomerulus. [2marks]

PART II (30MARKS)

3. a) Discuss the following function of the integumentary system. [6marks]
i) Protection. [4marks]
ii) Temperature Regulation. [5marks]
b) With the aid of an illustration describe how the heart is adapted to carry out its functions. [5marks]
4. a) Molecules and ions can pass through the plasma membrane in four different ways. Discuss. [10marks]
b) Explain the major functions of epithelia. [5marks]
5. a) Discuss components of blood plasma and their functions. [5marks]
b) Discuss the structure and function of the reticular layer of the dermis. [5marks]