

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2018/2019**

**YEAR III SEMESTER I SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HUMAN NUTRITION AND DIETETICS**

**AFD 2105: HUMAN PHYSIOLOGY**

**DATE: JUNE 2019 TIME: 2 HOURS**

**INSTRUCTIONS: Attempt all questions in section A and any two questions in section B.**

**SECTION A**

1. Draw a well labeled diagram of a nephron. (6 marks)

2. Explain why a person who lives in the desert makes very concentrated urine.

 (6 marks)

3. Explain the functions of growth hormones. (6 marks)

4. Define physiologic dead space and anatomic dead space. Give an example.(6 marks)

5. Illustrate the action potential of cardiac muscle. (6 marks)

SECTION B

1. Discuss the types of muscles and the adaptation for each. (20 marks)

2. Describe the autonomic nervous system effects in the body. (20 marks)

3. Discuss digestion and absorption of carbohydrates. (20 marks)