

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

# **UNIVERSITY EXAMINATIONS 2014/2015**

**FIRST YEAR SECOND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF SCIENCE IN PUBLIC HEALTH**

**IPH 2102 : HUMAN PHYSIOLOGY**

**DATE: OCTOBER 2014 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION [COMPULSORY] AND ANY OTHER TWO QUESTIONS**

===========================================================

**QUESTION ONE [COMPULSORY]**

1. Write short notes on each of the following
2. Arteriosclerosis [3 marks]
3. Negative feedback mechanism [3 marks]
4. Describe the digestive functions of each of the following parts of gastro-intestinal system:
5. Stomach [3 marks]
6. Illeum [3 marks]
7. Describe the functions of each of the following cell components:
8. Golgi apparatus [3 marks]
9. Ribosomes [3 marks]
10. Smooth endoplasmic reticulum [3 marks]
11. Explain the conditions that would make a human body dehydrated.[3 marks]
12. Describe the transmission of a nerve impulse across a synapse. [3 marks]
13. Explain three functions of electroplytes as body constituents. [3 marks]

**QUESTION TWO**

Describe the excretory and osmoregulatory roles of the human kidney. [20 marks]

**QUESTION THREE**

Discuss the role of various hormones in homeostasis in humans. [20 marks]

**QUESTION FOUR**

Discuss how human respiratory system works together with digestive, urinary and cardiovascular systems. [20 marks]