

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

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2018/2019

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HUMAN NUTRITION AND DIETETICS**

**AFD 2105 : HUMAN PHYSIOLOGY**

**DATE: APRIL 2019 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ONLY ONE**

**QUESTION IN SECTION B.**

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**SECTION A: (30 MARKS)**

**Q1.** Explain the mechanism of breathing in and breathing out. [6 marks]

**Q2.** Explain the functions of CCK hormone. [6 marks]

**Q3.** Outline six functions of the kidney. [6 marks]

**Q4.** Outline the functions of the thyroid hormones. [6 marks]

**Q5.** Give adaptation of the blood vessels in the body. [6 marks]

**SECTION B: (20 MARKS)**

**Q6.** With the assistance of a well-labeled diagram of a cell, discuss the functions of cell organelles. [20 marks]

**Q7.** Discuss gas exchange and transport of gases in the body. [20 marks]

**Q8.** Describe the digestion and absorption of proteins. [20 marks]