

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2018/2019**

**YEAR I SEMESTER 2 EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**

**IN COMMUNITY HEALTH**

**ICH 2105: HUMAN ANATOMY AND PHYSIOLOGY**

**DATE: AUGUST 2019 TIME: 2HOURS**

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

**QUESTION IN SECTION B**

**SECTION A: 48 MARKS**

1. Describe tissues of the body and their functions (6 marks)

2. Explain major functions of the cell (6 marks)

3. Benter, a student at JKUAT is not sure about the differences between a prokaryotic and enkaryotic cell. Contrast between a prokaryotic and enkaryotic cell. (6 marks)

4. Explain the components of a cell membrane (6 marks)

5. Homeostasis is significant for the body to function normally. Explain the determinants of homeostasis (6 marks)

6. Mrs. Kerubo went to hospital today and was diagnosed with diabetes mellitus. She has come to you for guidance. Outline three typical features of diabetes mellitus and reasons for

occurance (6 marks)

7. Describe the functions of reproductive system (6 marks)

8. Define the following terms:(6 marks)

a) System

b) Organ

c) Tissue

**SECTION B (22 MARKS)**

9. a) Draw and identify the structures of the skin and state their functions (12 marks)

b) Draw and label the human heart (10 marks)

10. You have been called to give health talk to students about the physical and physiological maturity changes that occur during puberty. Discuss the changes that occur during this period in both boys and girls. (22 marks)

11. Your sister tells you that of late she has started experiencing signs and symptoms of menopause. Outline features of menopause (22 marks)