

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN FOOD SCIENCE AND TECHNOLOGY**

ANHE 215: ANIMAL PHYSIOLOGY

STREAMS: BSC (FOST)

TIME: 2 HOURS

DAY/DATE: TUESDAY 03/12/2019

2.30 PM – 4.30 PM

INSTRUCTIONS:

ANSWER ALL QUESTIONS IN SECTION A AND SECTION B

SECTION A: 30 MARKS

1. Describe the modes of transport of substances in and out of cells. [5 marks]
2. Briefly describe components of a homeostatic control system. [5 marks]
3. Briefly describe the negative and positive feedback mechanisms. [5 marks]
4. Briefly explain what happens following an injury to a blood vessel or tissue. [5 marks]
5. Describe five factors influencing the rate of gaseous exchange. [5 marks]
6. Describe the control of blood calcium levels by calcitonin and parathormone. [5 marks]

SECTION B (40 MARKS)

7. Describe the phases of mitotic division in a somatic cell. [10 marks]
8. Discuss the transport and regulatory functions of blood. [10 marks]
9. Describe the process of egg formation. [10 marks]

10. Explain in details, the adaptive mechanisms of a camel in desert environments. [10 marks]
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