



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**FIRST YEAR SECOND SEMESTER EXAMINATION
FOR THE DEGREE OF BACHELOR OF SCIENCE IN
ANIMAL SCIENCE WITH INFORMATION
TECHNOLOGY**

MAIN CAMPUS

AAN 104: BASIC ANIMAL PHYSIOLOGY

Date: 9th June, 2017

Time: 12.00 - 3.00pm

INSTRUCTIONS:

- Answer ALL Questions

SECTION A: 30 MARKS

1. Describe the three tenets of the cell theory (3marks)
2. Describe three general classes of hormones giving examples in each (6 marks)
3. Define the following terminologies (3 marks)
 - a) Negative feedback
 - b) Homeostasis
 - c) Excretion
4. List two ways by which carbon dioxide is transported in the blood (2 marks)
5. Briefly explain two cellular processes in adult animals (4 marks)
6. Describe two functions of the excretory system in birds (2 marks)
7. List two functions of the cardiovascular system in domestic animals (2 marks)
8. Name two roles of the HCL in the animal stomach (2 marks)
9. Name two roles of the pancreatic juice in the duodenum in a donkey (2 marks)
10. Describe two ways by which the body regulates $[H^+]$ acid base balance in animals (4 marks)

SECTION B (40 MARKS)

11. Discuss thermoregulation as a homeostatic process in animals (10 marks)
 12. Discuss the process of respiration in a cow's body (10 marks)
 13. Using a well labeled diagram discuss the physiology of the nephron in a goat (10 marks)
 14. Using a well labeled diagram discuss the structure and functions of the skin in a horse (10 marks)
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