

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION**

ANHE 215: ANIMAL PHYSIOLOGY

STREAMS: ANHE

TIME: 2 HOURS

DAY/DATE: MONDAY 03/12/2018

2.30 PM – 4.30 PM

INSTRUCTIONS:

Answer ALL Questions in Section A and any Two in Section B

Section A (40 Marks)

1. Briefly explain the function of the following organelles in a eukaryotic cell
 - (a) Endoplasmic [1 mark]
 - (b) cytoskeleton [1 mark]
 - (c) Nucleus [1 mark]
 - (d) Ribosomes [1 mark]
 - (e) Golgi apparatus [1 mark]
2. Describe how macromolecules are transported across the plasma membrane. [5 marks]
3. With aid of a diagram, describe how impulses are transmitted across neuromuscular junctions. [5 marks]
4. Describe the process of gaseous exchange between lungs and blood and between tissues and blood. [5 marks]
5. Outline five functions of accessory sex glands in male reproductive system. [5 marks]
6. List the primary hormones that are secreted by the pituitary gland and state their function. [5 marks]

7. With aid of a well labeled diagram, describe the term 'Negative Feedback' [5 marks]
8. Describe the composition and functions of blood. [5 marks]

Section B: (40 Marks) Answer any Two Questions

9. With aid of a well labelled diagram, describe the different components of the nephron explain the major functions of each component. [15 marks]
 10. The body temperature is maintained at a constant level in mammals by the hypothalamus. Explain how this occurs and outline the common disorders that can affect this mechanism in an animal. [15 marks]
 11. Discuss the metabolic functions of bones in animals. [15 marks]
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