



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020

SPECIAL/ SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

KAS 104: ANIMAL PHYSIOLOGY

DATE: Thursday 14th January 2021

TIME: 2.00p.m - 4.00p.m

INSTRUCTIONS:

Answer ALL questions in Section A and any TWO questions in Section B. Within a Section ALL questions carry equal marks. Illustrate your answer with diagrams and give examples where appropriate.

SECTION A- (40 MARKS) Answer all questions

1. Define the following terms:

- a) Osmosis
- b) Diffusion
- c) Action potential
- d) Neurotransmission
- e) Tonicity

[5 marks]

2. Outline the functions of the skin

[5 marks]

3. Outline the mechanisms that control respiration in mammals

[5 marks]

4. Differentiate the following:

- a) Active transport from carrier mediated transport
- b) Extracellular from intracellular space
- c) Endocytosis from exocytosis

[5 marks]

5. Briefly describe the methods used to measure blood pressure.

[5 marks]

6. Briefly describe the feedback mechanisms in animal body.

[5 marks]

7. Outline the functions of blood.

[5 marks]

8. Describe the mechanism that controls milk secretion and let down in mammals.

[5 marks]

SECTION B: Answer any two questions (30 MARKS)

9. Describe the physiology of the digestive system.

[15 marks]

10. Discuss the homeostasis.

[15 marks]

11. Describe the physiology of the urinary system.

[15 marks]