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*(Knowledge for Development)*

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2017/2018 ACADEMIC YEAR**

**SECOND YEAR 1<sup>ST</sup> SEMESTER**  
**SPECIAL/SUPPLEMENTARY EXAMINATIONS**

**FOR THE DEGREE OF BSc AGRIC AND BIOTECH**

**COURSE CODE: SAB 220**

**COURSE TITLE: ANIMAL PHYSIOLOGY**

**DATE: 8<sup>TH</sup> OCTOBER 2018**

**TIME: 11:30 – 1:30 PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over 

KIBU observes ZERO tolerance to examination cheating

**Question 1**

- a) Briefly explain your understanding of oestrus (2 Marks)
- b) Explain the need for accurate oestrus detection in farm animals. (5 Marks)
- c) Give four major signs of oestrus in farm animals. (4 Marks)
- d) With examples, illustrate the classification of tissues (8 Marks)
- e) The term respiration has several meanings. Discuss (6 Marks)
- f) State and briefly explain what determines whether a cell is a target cell for a particular hormone? (5 Marks)

**Question 2**

Describe the relationship between the respiratory and the cardiovascular systems (20 Marks)

**Question 3**

- a) Differentiate between chemical and mechanical digestion. (10 Marks)
- b) Explain digestion of food in the small intestines (10 Marks)

**Question 4**

Distinguish the Graafian follicle and corpus luteum with regard to their respective functions (20 Marks)

**Question 5**

All animals have same cellular basis of electrical signaling-Neuronal structure. Describe the structural and chemical design of the neural system (20 Marks)