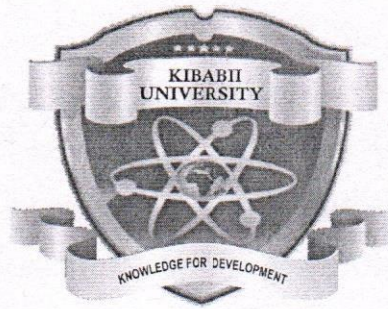


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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2015/2016 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF AGRICULTURE EDUCATION

COURSE CODE: SZL 212

COURSE TITLE: INTRODUCTION TO ANIMAL PHYSIOLOGY

DATE: 13 /09/ 2017

TIME: 11:30 -1:30 PM

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

1. Question 1

a). **Define** the following terms as used in physiology

- i). positive feedback (4 MARKS)
- ii). Gametogenesis (2 MARKS)
- iii). Hypotonic intracellular fluid (3 MARKS)
- iv). Regulated system (3 MARKS)

b). **Explain** the formation of blood cells (6 MARKS)

c). **Explain** the phases of menstruation in the female reproductive system (8 MARKS)

e). **Give** two reasons why the homeostatic mechanism is referred to as a negative feedback (4 MARKS)

2. Question 2

State the main types of white blood cells and clearly explain their specific functions in body defense. (20 MARKS)

3. Question 3

a) **Explain** the physiology of female hormonal control in the process of menstruation. (10MARKS)

b) Clearly state the effects of estrogen and progesterone during pregnancy (10MARKS)

4. Question 5

Digestive system is one of the distinct principal organ systems in physiological systems. **Explain** the physiology of animal nutrition (20MARKS)

5. Question 5

Explain the isometric and isotonic contractions; clearly indicating which term better applies to the activity of the leg muscles during running. (20MARKS)