

CHUKA



UNIVERSITY

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**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE (ANIMAL PRODUCTION)**

ANHE 212: REPRODUCTIVE PHYSIOLOGY OF FARM ANIMALS

STREAMS: B.SC (ANPD) Y2S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 16/12/2010

8.30 A.M. - 10.30 A.M.

INSTRUCTIONS:

Answer all questions.

1. Define the various phases of Oestrus cycle of the cow indicating the important hormonal & behavioural changes in each stage. [20 marks]

2. Describe the following
 - (a) Capacitation [4 marks]
 - (b) Spermiogenesis [4 marks]
 - (c) Oogenesis [4 marks]
 - (d) Silent heat [4 marks]
 - (e) Milk letdown [4 marks]

3. Infertility arises from many causes.
 - (a) In artificial insemination outline the factors that can lead to conception failure. [10 marks]
 - (b) Describe the other causes of infertility in the female animal. [10 marks]

4. Briefly discuss the control of reproductive functions in the male & female animals by the hypothalamus. [20 marks]

5. (a) Define or give one role of the following in the reproductive function.

- (i) Testosterone [1 mark]
- (ii) prostaglandins [1 mark]
- (iii) Relaxin [1 mark]
- (iv) Epididymis [1 mark]
- (v) Sertoli cells [1 mark]
- (vi) Folliculogenesis [1 mark]
- (vii) Cervix [1 mark]
- (viii) Meiosis [1 mark]
- (ix) Leydig cells [1 mark]
- (x) Implantation [1 mark]

(b) Outline the process of parturition. [10 marks]
