

**CHUKA**



**UNIVERSITY**

**COLLEGE**

**UNIVERSITY EXAMINATIONS**

**SECOND YEAR EXAMINATION FOR THE AWARD OF  
CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION**

**ANHE 00221: REPRODUCTION & FERTILITY**

**STREAMS: CERT (ANHPD) Y2S1**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 16/12/2010**

**8.30 A.M. - 10.30 A.M.**

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**INSTRUCTIONS:**

Answer all questions.

- Q.1 Describe the physiological roles of the following hormones.
- |                         |           |
|-------------------------|-----------|
| (a) Relaxin             | [2 marks] |
| (b) Prolactin           | [2 marks] |
| (c) Progesterone        | [2 marks] |
| (d) Testosterone        | [2 marks] |
| (e) Luteinizing hormone | [2 marks] |
- Q.2 (a) Explain the occurrence of witches milk in heifers. [4 marks]
- (b) List six signs of heat in a cow. [6 marks]
- Q.3 Enumerate four methods used to catch a cow on heat. [4 marks]
- Q.4 What are the basic roles of males in reproduction? [6 marks]
- Q.5 Discuss the spermatogenesis process and draw a well labeled diagram of spermatozoa. [15 marks]

Q.6 Define fertility and outline the steps that have got to be achieved in order for it to be successful in females. [10 marks]

Q.7 (a) Name four methods used in pregnancy diagnosis. [4 marks]

(b) Define artificial insemination and draw a well labeled diagram of the A.I. Tank. [11 marks]

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