FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI DEPARTMENT OF ANIMAL SCIEENCE AND TECHNOLOGY

AST 407 (Reproductive Physiology and Endocrinology of Farm Animals)

DATE: 20/2/21

INSTRUCTION: Answer only five questions, at least one from each section.

SECTION A

- 1a. What are hormones?
- 1b. Discuss the hormones of the pituitary glands, stating their chemical nature and functions.
- 2a. What are the functions of hormones produced by thyroid gland?
- 2b. Write briefly on adrenal gland, stating their hormones, characteristics, and functions.

SECTION B

- 3a. Briefly, explain the following terminologies in farm animals; Fertility, Gestation, Parturition and Lactation.
 - 3b. Write short notes on (i) sexual development and (ii) reproductive efficiency.
 - 4a. Name and explain the two main classes of reproductive hormones and give two examples of each.
 - 4b. Enumerate the three main aspects of the physiological effects of hormones.
 - 5. With the aid of a well labeled diagram, discuss the reproductive tract of a laying hen with emphasis on the events that SECTION C take place in each.
 - 6a. Define spermatogenesis.
 - 6b. What are the functions of the following in a bull; (i) Testicle (ii) Epididymis (iii) Vas deference (iv) Accessity glands (v) Penis.
 - 7a. Where does fertilization take place in female ruminants such as cow?
 - 7b. Write the functions of the following in a female ruminant; (i) Ovaries (ii) Uterus (iii) Isthmus (iv) Intundibulum (v) Utero-tubal junction (UTJ).

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