

**UNIVERSITY OF FORT HARE**

**AGV 322**

**DEGREE EXAMINATIONS**

**November 2018**

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**Time: 3 HOURS**

**Subject:     Module title: Non-infectious disease**

**Marks:       100**

**This paper consists of 3 pages including cover page**

**Internal Examiner: Dr. I F Jaja**

**Internal Examiner: Dr. A.B. Falowo**

**Instructions**

- 1. Answer all questions**
- 2. It is in your best interest to write clearly and legibly.**
- 3. Number all your answers correctly.**

**Question 1 (20 marks)**

- a. Describe the following conditions of the ovary
  - i. Ovarian agenesis (1)
  - ii. Ovarian hypoplasia (1)
  - iii. Ovarian remnants (1)
  - iv. Oophoritis (1)
  - v. Differentiate between cyst composed of follicles and cyst that are corpora lutea (1)
- b. Describe the following condition in the uterus
  - i. Uterine torsion (1)
  - ii. Uterine prolapse (1)
  - iii. Pyosalpinx (1)
  - iv. List two factors responsible for uterine prolapse in dairy cows (2)
- c. Describe the following reproductive condition in the male animals
  - i. Paraphimosis (1)
  - ii. Ulcerative posthitis (1)
  - iii. Cryptorchids (1)
  - iv. Mention two factors responsible for testicular degeneration (2)
- d. Answer the following questions on the factors that affect reproduction
  - i. Describe how (1) Nutrition, (2) genetics and (3) stress can affect reproduction (3 marks)
  - ii. Mention one plant each that causes abortion in cattle and goats respectively (2 marks)

**Question 2 (20 marks)**

- a. A wound is a circumscribed injury which is caused by an external force and it can involve any tissue or organ.
  - i. It can be surgical or .....(1)
  - ii. It can be mild, severe, or even.....(1)
  - iii. It can be Simple wound or .....(1)
  - iv. It can be Acute .....(1)
- b. Make and label a cross section of a simple wound (4)
- c. Wounds caused by thermal forces are categorized into burning and freezing. Describe the further classification of wound by burning (4)
- d. Give four examples of mechanical method of surgical hemostasis (4)
- e. Give two examples each of local and systemic factors responsible for delayed wound healing (4)

**Question 3 (20 marks)**

A farmer received a laboratory result stating that his animal has metabolic diseases. He further needs some explanation regarding other likely diseases of metabolism that affects livestock:

- a. Describe the aetiology of the following (4 marks)
  - i. Parakeratosis in Swine
  - ii. Hypoglycemia in neonates
  - iii. White muscle disease
  - iv. Ketosis

- b. List four clinical signs of stage II milk fever (4 marks)
- c. In some cows, sub-clinical hypocalcaemia rates can affect 50% of dairy cows, list four consequences of subclinical hypocalcaemia (4 marks)
- d. Give four aetiology of hypoglycaemic in piglets (4 marks)
- e. Describe the treatment of ketosis (4 marks)

**Question 4 (20 marks)**

A. Tajaja farm Pty located in Bedford bought 50 free ranged cattle from Free State. The animals upon arrival were intensively managed and were fed with highly fermentable feedstuffs in larger than normal amounts. After three days 60 percent of the animals were sick and showed the following clinical signs; bloated, distended and painful abdomen, splashy and fetid diarrhea, depression and refusal to walk:

- i. Describe the pathogenesis of this disease (8 marks)
  - ii. What is that treatment/management of this disease (2 marks)
- B. i. A disease of the fore stomach which is commonly associated with the presence of nail, stones, woods, and wires is called..... (2 marks)
- ii. Describe four clinical signs of the disease mentioned in B (4 marks)
  - iii. List two methods of diagnosing this disease (2 marks)
  - iv. List two surgical and medical ways of treating the disease (2 marks)

**Question 5 (20 marks)**

- a. Describe the following poisoning terminologies:
  - i. Toxin (1)
  - ii. Intoxication (1)
  - iii. Dose (1)
  - iv. LD<sub>50</sub> (1)
- b. List three factor that affect the activity of a toxicant (3)
- c. The diagnosis of a toxicosis, as with any disease, is based on - - - - (4)
- d. Mention and describe the three basic principles of therapy of toxicosis (9)

**GOOD LUCK!!!**