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TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

INSTRUCTIONS TO CANDIDATES: PART I (Answer Booklet)

1. A candidate should fill in the actual names and the index number on the cover of this questions and answer booklet on the provided place (Black Box).
2. It is illegal for a candidate to write any of his/her names, index number or a school name inside the answer booklet.
3. A candidate should check if all pages of the answer booklet are complete. No candidate should remove or tear any pages or part of it from the answer booklet.
4. A candidate should answer in the language in which the examination is set. (See page **(ii)**)
5. A candidate should sign on the sitting plan when submitting the answer booklet. He/she has also to check if the answer booklet is well sealed.
6. No extra paper is allowed in the examinations room. If a candidate is caught with it his/her results will be nullified.
7. No candidate is allowed to write answers not related to the subject being sat for, otherwise it will be considered as a cheating case.
8. Write your answers on the 12 lined pages (From page 1 of 12 to page 12 of 12).
9. Use the last non-lined pages as draft.
10. Results for any candidate who is caught in examination malpractices are nullified. The cheating can be recognized during examinations administration, marking exercise or even thereafter.

TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

OPTION/TRADE: ANIMAL HEALTH

SUBJECT: Animal diseases prevention and control

DURATION: 3 hours

INSTRUCTIONS TO CANDIDATES: PART II (Question paper)

The paper is composed of two (2) main Sections as follows:

Section I: Attempt all the Twelve (12) questions (60 marks)

Section II: Attempt any Four (4) questions out of Six (6) (40 marks)

Allowed materials:

-Ruler and square

-Calculator

Note:

Every candidate is required to carefully comply with the provided assessment instructions.

Section I: Attempt all the Twelve (12) questions

(60 marks)

01. a) Differentiate necropsy from Autopsy. **(3marks)**

b) State at least two (2) uses of necropsy. **(2marks)**

02. Complete the following statements by filling the gaps. **(5 marks)**

a) The cell protein produced by a cell after stimulation by viruses and other microorganisms to provides a local defense against an antigen is called.....

b) The typical structure of a bacterial consists ofstructures found in all bacterial cells andstructures in some types of bacterial cells.

c) The genome of a virus may consist ofor

03. What are the signs of putrefaction of a dead animal? **(5marks)**

04. In outbreak of anthrax, the carcass must be disposed properly.

What are instructions to follow when manipulating the carcass to avoid transmission of the disease? **(5marks)**

05. Explain the following terms:

a. Mutualism

b. Commensalism

c. Parasitism

(5marks)

d. Capsulation

e. Interferon

06. Fungi are usually classified according to biological taxonomy based upon the types of hypha, spore and reproduction. Discuss four (4) classes of fungi. **(5marks)**

07. Microorganisms can be grouped on the basis of their need for oxygen to grow. Give that classification. **(5marks)**

08. Give the causative agent of diseases illustrated below. **(5marks)**

a) Rinder pest

b) Lumpy skin disease

c) rabies

d) Swine erysipelas

e) Black quarter

09. Determine the clinical signs presented by a hen suffering from salt poisoning. Give at least five (5) signs. **(5marks)**

10. Describe Clinical signs and Treatment of Marijuana (*Cannabis*) and Opiates. **(5marks)**

11. What are steps of infectious process? **(5marks)**

- 12.** Ascariasis is among the largest nematodes which affect pig that cause low production for pig farmers in Rwanda.
- a)** Mention the etiologic name of ascariasis for pig
 - b)** What is the best way to control it? **(5marks)**

Section II: Attempt any Four (4) questions out of Six (6) (40 marks)

- 13.** You are asked to perform avian necropsy and you know that it has the specific protocol. **(10marks)**
- a)** what guidelines are you to follow for external examination of the avian carcass?
 - b)** Discuss the preparation of the bird before open the bird carcass.
- 14.** How to perform the examination of head during necropsy? **(10marks)**
- 15.** During the multiplication of bacteria there is a phenomenon called bacterial recombination; explain the latest phenomenon and then describe the phases of bacterial growth. **(10marks)**

16. Considering the following tests, select the materials, instruments or equipment needed for each case. **(10marks)**

Test	Requirements (materials, instruments or equipment)
CMT-Test	
Slide agglutination test (of brucellosis)	
Blood smear	

17. Give the cause, clinical signs and treatment of Grass Tetany in cattle. **(10marks)**

18. Milk fever is metabolic diseases of dairy cattle found in Rwanda.
Based on clinical signs, describe three (3) progressive stages of milk fever.

(10marks)

