

051106T4APB

APPLIED BIOLOGY LEVEL 6

APB/OS/AB/CR/06/6/A

CARRY OUT ANIMAL HUSBANDRY

July/August 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the question as guided in each section
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet to answer the questions
5. Do not write in this question paper

This paper consists of THREE (3) printed pages
Candidates should check the question paper to ascertain that all pages are printed as
indicated and that no questions are missing

SECTION A: (40 MARKS)

(Answer ALL questions in this section)

1. Distinguish between Anaesthesia and Euthanasia. (4 Marks)
2. Mice is one of the laboratory animals.State any FOUR advantages of using Mice as a laboratory animal. (4 Marks)
3. Laboatory animals are fed with different types of food. State any FOUR advantages of using pelleted diets to feed laboratory animals. (4 Marks)
4. Diseases control is very important in the animal cages. State any FOUR methods of controlling laboratory animaldiseases. (4 Marks)
5. Frogs are used for scientific studies. Explain any TWO humane killing methods used. (2 Marks)
6. Rat’s population can be controlled for easy management in the laboratory. State any FOUR methods applied. (4 Marks)
7. Outline any FIVE suitable factors to consider when selecting the rabbits for breeding. (4 Marks)
8. Salmonellosis is a disease which affects laboratory animals. Name any FOUR symptoms of this desease. (4 Marks)
9. A cow died of anthrax in a paddock. Describe any TWO ways of disposing the carcass. (2 Marks)
10. It is important to handle animals efficiently. Describe FOUR steps of handling and sexing a rabbit in the laboratory. (4 Marks)
11. Wood is commonly used to construct cages. State any FOUR advantages of using wood materials. (4 Marks)

SECTION B (60 MARKS)

(Answer Any THREE Questions from this section)

12. a) The proper feeding presentation methods of laboratory animals help prevent feed wastage. Describe any FIVE physical forms of diets available for animals
(10 Marks)
- b) Handling of small mammals in the laboratory. Discuss any FIVE precautions that must be taken when handling laboratory animals. (10 Marks)
13. a) Laboratory technicians should have knowledge on animal breeding. Describe the oestrous cycle of a laboratory rat. (10 Marks)
- b) Animal bleeding can lead to death. Outline the difference between arterial bleeding and venous bleeding. (10 Marks)
14. a) Inoculation prevents infections and spread of diseases. Discuss the following inoculation procedures on laboratory rat. (10 Marks)
- (i) Oral administration
 - (ii) Intrapeneal administration
- b) Breeding of laboratory animals helps in sustainability of their population. Outline the process of breeding mice in the laboratory. (10 Marks)
15. Mating is a very crucial activity in laboratory animal rearing. Describe the advantages and disadvantages of the following mating systems as employed in laboratory animal rearing.
- a. Harem mating system (10 Marks)
 - b. Monogamy (10 Marks)

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