

**AGRICULTURE EXTENSION LEVEL 4**

**AGR/OS/EXT/CR/06/4**

Printed By: Bungoma North Technical And Vocational College

**Breed Livestock** Date: 21.11.2025 02:56 PM

**November/December 2025**

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

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**WRITTEN ASSESSMENT**

**TIME: 2 HOURS**

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**INSTRUCT CANDIDATE:**

1. This paper consists of **TWO** sections: **A** and **B**.

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2. Answer **ALL** the questions in each section.

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3. Marks for each question are indicated in the brackets.

4. You are provided with a separate booklet to answer the questions.

5. Do not write on the question paper.

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**This paper consists FOUR (4) printed pages.**

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**Candidate should check the question paper to ascertain that  
all pages are printed as indicated and that no questions are missing.**

## SECTION A (10 MARKS)

*Attempt ALL questions in this section*

1. **Successful breeding depends on proper animal selection.** Which one of the following is a method of selection used in livestock breeding?

A. Sample selection

B. Mass selection

C. Feed selection

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D. Fence selection

2. **Gathering materials, tools, and equipment appropriately for breeding livestock** ensures \_\_\_\_\_.

A. Time wastage in breeding

B. Smooth flow of activities

C. Increased costs of inputs

D. Unsafe operations in breeding

3. The method of breeding where semen is introduced into the female reproductive tract without the use of a bull is called?

A. Inbreeding insemination

B. Artificial insemination

C. Embryo transferring

D. Breeding transferring

4. Animals bred through close relatives like father–daughter or brother–sister is called?

A. Inbreeding  
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B. Out-crossing

C. Crossbreeding

D. Upgrading

5. Which of the following is a correct safety measure during livestock breeding?

A. Wearing Personal protective clothing

B. Ignoring animal behaviour

C. Handling equipment carelessly

D. Disposing waste anywhere

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6. During oestrus, females exhibit various signs of heat. Which one of the following is a sign of heat in cattle?

- A. Blowing Printed By Technical And Vocational College
- B. Bellowing Date: 21.11.2025 02:56 PM
- C. Barrowing
- D. Coughing

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7. Proper storage of unused materials and clean equipment helps to \_\_\_\_\_  
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- A. Cause accidents
- B. Encourage rusting
- C. Prevent contamination
- D. Increase replacement costs

8. Following veterinary officers' instructions during breeding is important because \_\_\_\_\_.  

- A. It ensures good procedures are followed
- B. It assists in wasting time during breeding
- C. It reduces breeding efficiency

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D. It discourages record keeping  
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9. Artificial insemination requires semen to be stored in:

- A. Cold water
- B. Nitrogen tank
- C. Glass bottles
- D. Clay pots

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10. Which owing is the correct disposal method of used needles after livestock  
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breeding?

- A. Buried in shallow pits
- B. Disposed in open dumps
- C. Incinerated or disposed Printed By: North Technical And Vocational College  
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- D. Re-used for the next service

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## SECTION B (40 MARKS)

*Attempt ALL questions in this section*

11. Mention FOUR problems that may arise when livestock are bred using close relatives.

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(4 Marks)

12. State FOUR factors to consider when selecting a bull for breeding. (4 Marks)

13. List FOUR signs of parturition in goats. (4 Marks)

14. Mention FOUR safety measures that should be observed when breeding livestock.

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(4 Marks)

15. Farmers breed livestock for different purposes. State breeding animals.

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(4 Marks)

16. Give FOUR reasons why unused materials, clean tools, and equipment should be stored properly after use. (4 Marks)

17. Natural mating is still common among smallholder farmers. State FOUR disadvantages of natural mating. (4 Marks)

18. List FOUR animal breeding activities that need to be documented. (4 Marks)

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(4 Marks)

19. Name FOUR tools and equipment's used during artificial insemination in cattle. (4 Marks)

20. Give FOUR reasons for wearing PPEs during Artificial Insemination. (4 Marks)