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AGRICULTURAL EXTENSION LEVEL 4

AGR/OS/EXT/CR/06/4

BREED LIVESTOCK

July /August 2024

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

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WRITTEN ASSESSMENT

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

1. The paper consists of **TWO** sections: **A** and **B**.
2. Marks for each question are indicated in brackets.
3. Do not write on this question paper.
4. Write your answers in the answer booklet provided.

This paper consists of FIVE (5) printed pages.

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

SECTION A (10 MARKS)

In this section, each question carries one (1) mark. Attempt all questions in this section. Choose the correct answer and write it in the answer booklet provided.

1. Define animal breeding.
    A. Process of allowing the selected male and female to mate
    B. Improved performance of cows
    C. Ability to bring forth offspring's
    D. Reproductive system
2. _____ is the basic hereditary material which is found in the nucleus of all the cells.
    A. Chromosomes
    B. Gene
    C. Genotype
    D. phenotype

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3. Which of the following choices is not a factor to consider in pig breeding
    A. No of teats
    B. Fast growth
    C. Body conformation
    D. Restlessness
4. What is Embryo transfer as used in livestock breeding
    A. to measure of transmission ability from parents to offspring
    B. to introduction of semen to female reproductive tract by hand using syringe or tubes
    C. to technology where ova/eggs are harvested from high quality animals
    D. to implantation of an embryo from a high quality female in the uterus of a low grade female animal
5. Select the meaning of inbreeding from the choices given below
    A. mating of closely related species
    B. mating of similar colour species

C. mating of clones

D. mating of different breeds

6. Identify one sign of heat in rabbit from the choices below

A. Throwing herself on the sides

B. Frequent mounting

C. Decline in milk production

D. High temperature

7. The genetic composition of an individual is_____.

A. Genotype

B. Phenotype

C. Genes

D. Chromosomes

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8. Which one of the following statement best describes Oestrus cycle

A. Mating period

B. Period during which a female animal is ready for mating

C. Time for delivery

D. Gestation period

9. Which one of the following is not an advantage of outcrossing?

A. Product improvement

B. Fast growth rate

C. Disease resistance

D. Increased mortality rate

10. Identify the reason for keeping breeding records from the choices below

A. Control breeding

B. Enable selection of breeding pairs

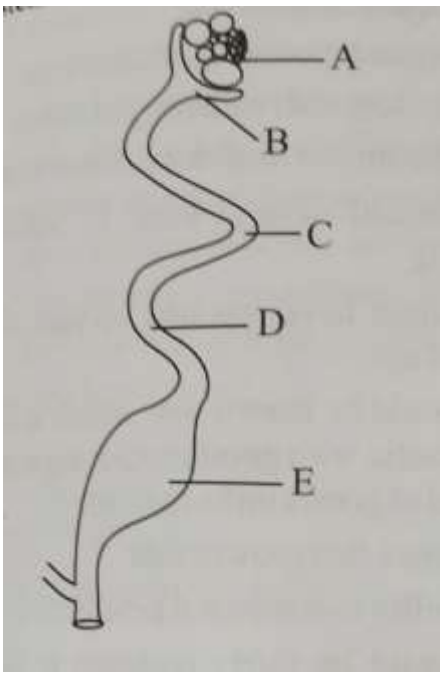
C. Build disease resistance

D. Increase breeding chances

SECTION B (40 MARKS)

Attempt all questions in this section.

11. The diagram below shows the reproductive system of a hen.



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Name the parts labelled A, B, C, D and E. (5 Marks)

12. Kigen Women self-help group in Uasin Gishu County wants to start a dairy cattle breeding enterprise. As an Extension officer, advise the members of the group on FOUR reasons of breeding in livestock. (4 Marks)
13. Highlight FOUR environmental factors influencing genetic makeup in livestock (4 Marks)
14. State FOUR factors considered when selecting a breeding stock (4 Marks)
15. Give FOUR reasons for inbreeding in livestock (4 Marks)
16. Outline FOUR possible reasons that could hinder the use of embryo transfer techniques in livestock breeding in Kenya. (4 Marks)
17. State FOUR disadvantages of crossbreeding in livestock (4 Marks)
18. Just before birth, a farmer noticed that the hind legs and the tail of a calf were showing at the vulva.
    a) Give the name of this presentation.

b) State TWO precautions that the farmer should take under this condition (3 Marks)

19. As an Extension officer, you have been invited for an open air seminar by dairy farmers from Nakuru County to train them on various methods of breeding their cattle. Highlight FOUR advantages of artificial insemination. (4 Marks)
20. State FOUR signs of heat in sows (4 Marks)

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