LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

MOGALAKWENA DISTRICT

NATIONAL SENIOR CERTIFICATE

GRADE 12

AGRICULTURAL SCIENCES
INFORMAL TOPIC TEST
ANIMAL PRODUCTION
16 FEBRUARY 2024

MARKS: 35 **TIME: 1H00**

INSTRUCTIONS AND INFORMATION

1. This question paper consists of 5 pages
2. This question paper is made up of TWO sections, namely SECTION A AND B.
3. Start each section on a new page
4. Number the answers correctly according to the numbering system used in the question paper.
5. Non-programmable calculators may be used.
6. Show all your calculations including formulae where applicable.
7. Write neatly and legibly

SECTION A

QUESTION 1

1.1 Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A–D) next to the question number (1.1.1–1.1.5) in the ANSWER BOOK, for example 1.1.7 A

1.1.1The following could be associated with a stressful condition experienced by pigs:

A. Eating hurriedly
B. Lying calmly
C. Belly nibbling
D. Wallowing in water

1.1.2The most recommended precautionary measure when transporting farm animals:

A. Transport male and female animals together
B. Travel when the roads are not busy and you can travel fast
C. Transport sheep, goats and cattle together
D. Ensure the loading/unloading ramps are high and strong enough

1.1.3 The colour of the flag or aid attached to a stick or pole to signal danger when moving animals by road

A. Black
B. Blue
C. Purple
D. Red

1.1.4 Incorrect handling of farm animals may lead to pale and exudative meat, poor grading of carcasses due to bruising as well as ... after slaughtering.

A. Yellow-coloured fat
B. Softening of the meat
C. Delayed rigor mortis
D. Softer bones

1.1.5 The cheapest and most sustainable way of increasing production output in organic animal production is to use …

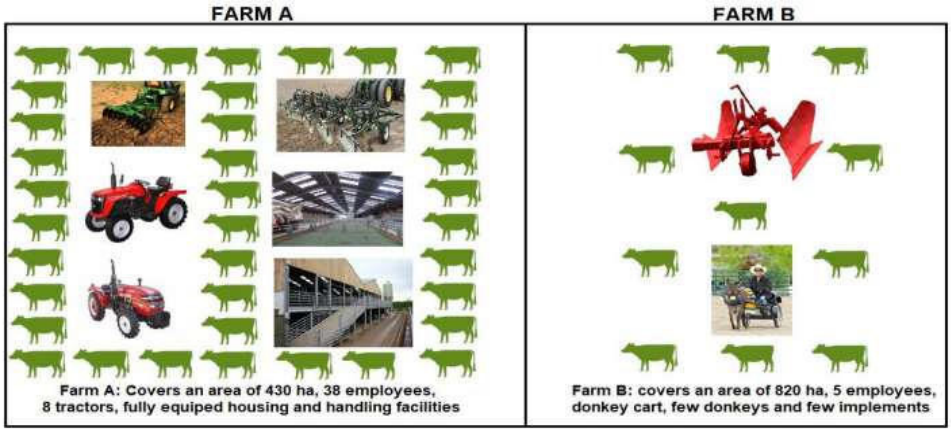
A. Automated environmental control in a shelter
B. An effective breeding programme.
C. Growth stimulants
D. Chemicals to prevent diseases

(1 x 5=5)

SECTION B

QUESTION 2:

2.1 The diagrams below illustrate different systems of production.



2.1.1 Identify the animal production systems represented in FARM A and FARM B in the above illustrations. (2)

2.1.2 Justify the answer to QUESTION 2.1.1 based on the pictures of FARM A and FARM B and the information provided. (2)

2.1.3 Provide an example of the animal production system that could be practised in FARM A, other than the one shown in the picture. (1)

2.1.4 Differentiate between subsistence and commercial farming systems. (2)

2.2 The data below shows the production levels of a poultry farm on certain months of the year.

MONTH OF THE YEAR	PRODUCTION (EGGS) (thousand units)	PRODUCTION (BROILERS) (thousand units)
January	35	20
February	25	20
March	40	30
April	30	40
May	45	50
June	50	60
July	35	60
August	40	60

2.2.1 Draw a combined bar graph of the egg and broiler production levels on a poultry farm from February to July. (6)

2.2.2 Indicate the trend in broiler production from February to August (2)

2.3

A farmer needs to transport weaned calves and cows to the market. The bakkie is too small to transport them all at once. The farmer can hire a contractor or the animals can be walked along the road to the market.

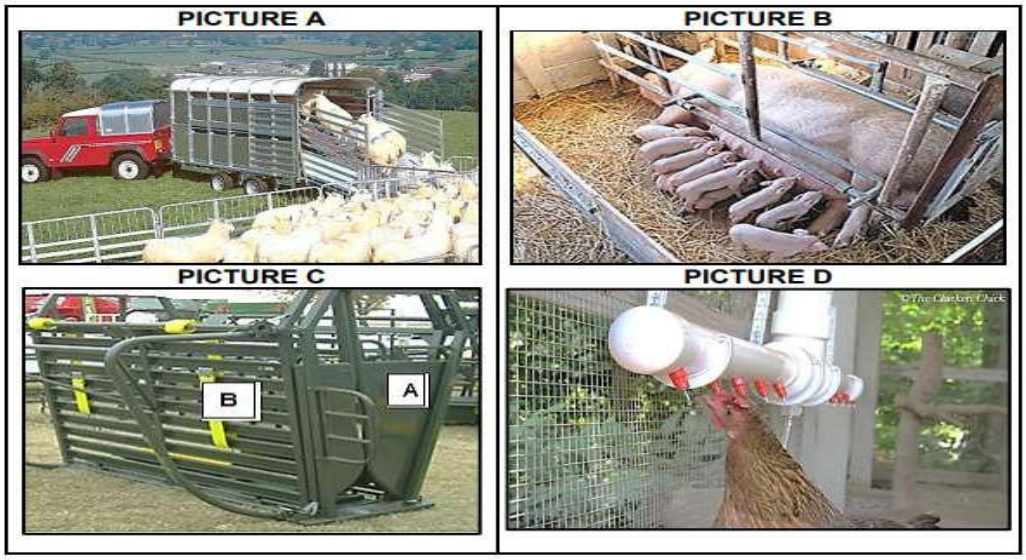
2.3.1 List THREE basic guidelines for vehicles that transport farm animals. (3)

2.3.2 State TWO important aspects to consider when moving farm animals on a public road. (2)

2.3.3 Name the farm animals to which the following basic guidelines apply when they are handled:

a) Carry them by both legs (1)
b) Catch them above the joint of the hind legs (1)
c) Use a plywood board when moving them (1)

2.4 The pictures below show facilities/equipment used in an animal production system.



2.4.1 Identify the facility/equipment in PICTURE B and PICTURE D. (2)

2.4.2 State the purpose of using the facility labelled A in PICTURE C. (1)

2.4.3 Indicate TWO design features of the facility labelled B in PICTURE C. (2)

2.4.4 A permit is one of the requirements needed when moving animals using the facility in PICTURE A. Indicate the two information that must be included in the permit. (2)

TOTAL 35