



443/2

AGRICULTURE (Theory)

Paper 2

Nov. 2023 - 2 hours

Serial No.
28343387

Name:

Index Number:

Candidate's signature:

Date:

Instructions to Candidates

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three sections; **A**, **B** and **C**.
- Answer **all** the questions in sections **A** and **B**.
- Answer any **two** questions in section **C**.
- All answers should be written in the spaces provided.
- This paper consists of 16 printed pages.**
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- Candidates should answer the questions in English.**



For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 - 15	30	
B	16 - 19	20	
C		20	
		20	
Total Score		90	



SECTION A (30 marks)

*Answer **all** the questions in this section in the spaces provided.*



1 Name **four** types of feeds given to pigs from birth to maturity. (2 marks)

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.....

2 State **two** characteristics of each of the following goat breeds:

(a) saanen; (1 mark)

.....
.....

(b) toggenberg. (1 mark)

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.....

3 State **four** behavioural characteristics that may indicate sickness in livestock. (2 marks)

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4 Give **four** reasons why livestock breeding is carried out. (2 marks)

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5 State **four** importance of flushing in ewes. (2 marks)

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6 State **four** predisposing factors of livestock diseases. (2 marks)

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.....

7 State **four** advantages of castrating male piglets. (2 marks)

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8 Give **four control** measures to prevent egg-eating in a deep litter poultry rearing system. (2 marks)

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.....



9 Give **four** reasons for carrying out maintenance practices on a chaff cutter. (2 marks)

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10 State **four** signs of livestock sickness observed on dung. (2 marks)



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11 State **four** uses of electric power in a dairy unit. (2 marks)

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12 Name **two** sheep breeds that are reared for:

(a) mutton; (1 mark)

.....
.....

(b) both mutton and wool. (1 mark)

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.....

13 State **four** advantages of animal power over tractor power. (2 marks)

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.....
.....



14 Name the farm tool used for each of the following:

(a) cutting curves in wood; (1/2 mark)

.....

(b) smoothing curved wood surface; (1/2 mark)

.....

(c) bloodless castration; (1/2 mark)

.....

(d) cutting and splicing wires. (1/2 mark)

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15 State **four** factors considered when selecting construction materials. (2 marks)

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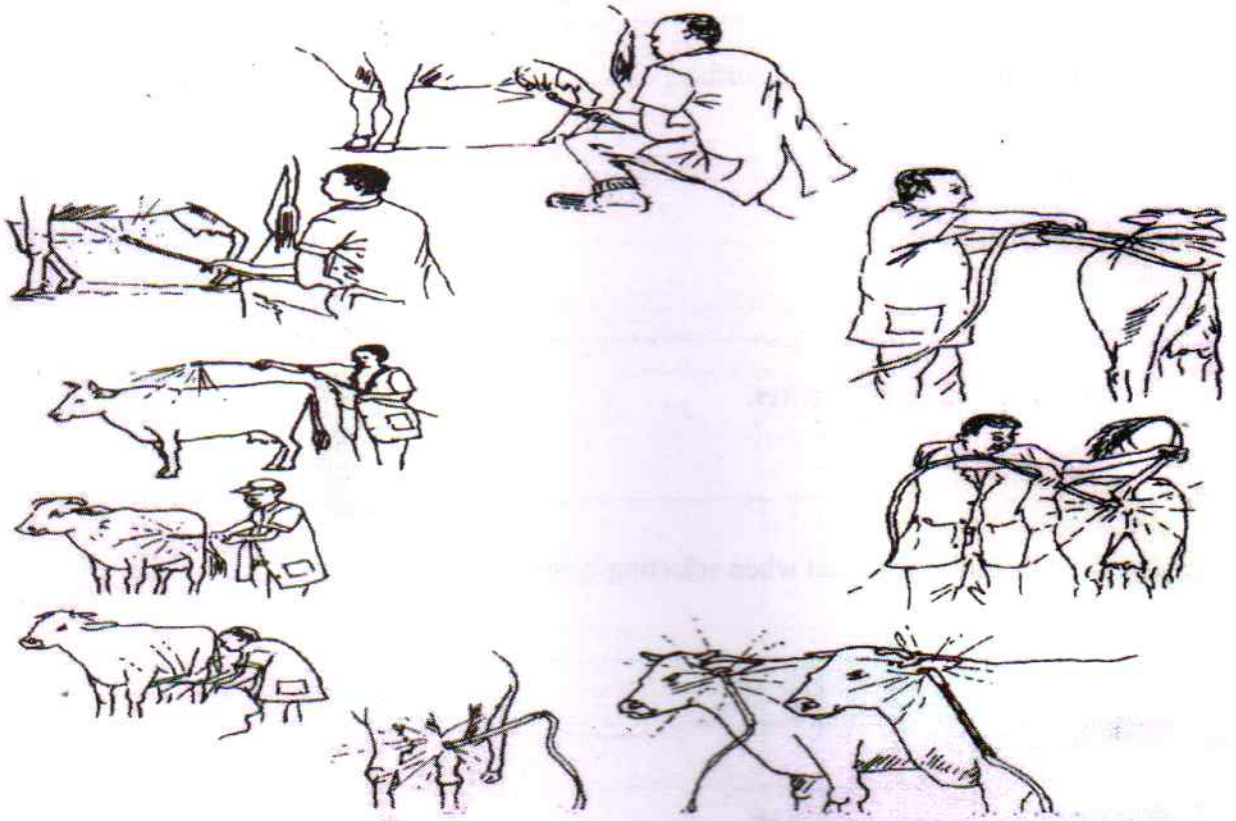


SECTION B (20 marks)

Answer *all* the questions in this section in the spaces provided.



16 The following diagram shows a livestock rearing practice.



(a) Give a reason why the practice is carried out. (1 mark)

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(b) Using letters X and Y, mark on the diagram, the animal part that is targeted:

(i) first (X); (1 mark)

(ii) last (Y). (1 mark)

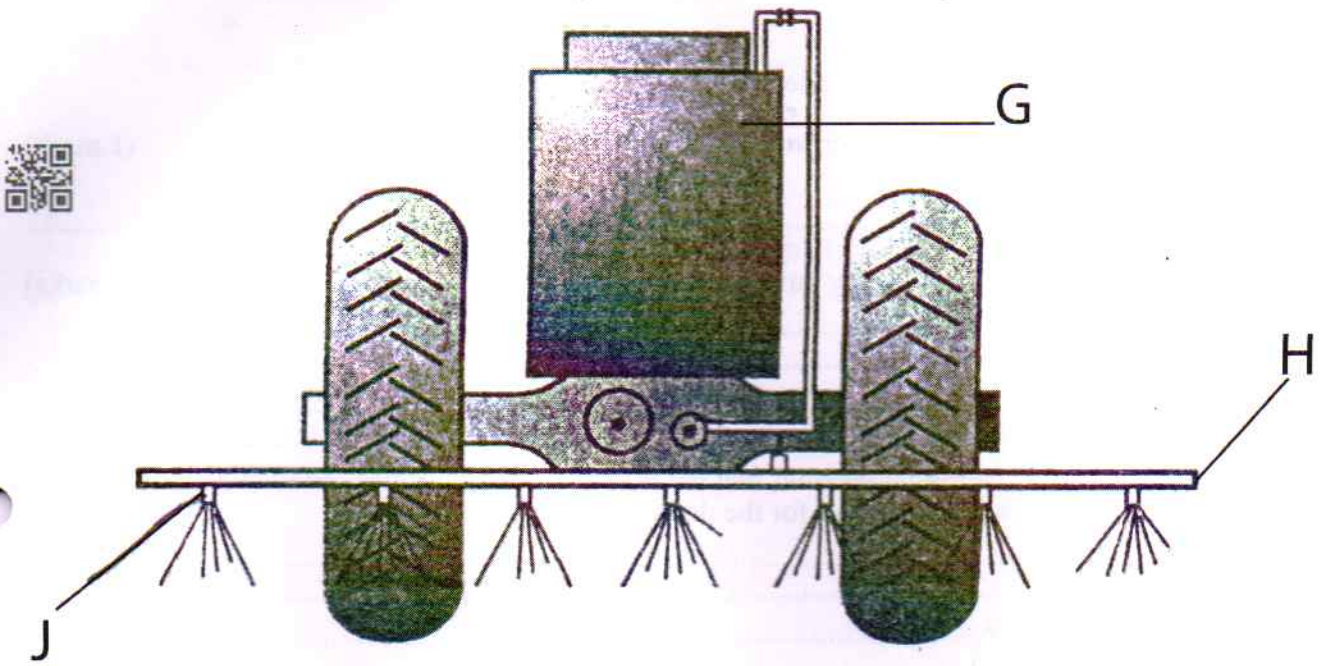
(c) Name the farm structure in which the practice should be carried out. (1 mark)

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(d) Name the farm equipment the farmer used to carry out the practice. (1 mark)

.....

17 The following picture shows a tractor drawn implement.



(a) Identify the implement. (1 mark)

.....

(b) Name the part labelled:

G (1 mark)

.....

H (1 mark)

.....

J (1 mark)

.....

(c) State **one** maintenance practice for the part labelled **J**. (1 mark)

.....

.....

18 A farmer observed the following symptoms on a cow:

- distended left side of the abdomen;
- difficulty in breathing;
- profuse salivation;
- cow lies down and is unable to rise up.



(a) Identify the disorder the cow was suffering from. (1 mark)

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(b) State **two** factors that may have led to the disorder. (2 marks)

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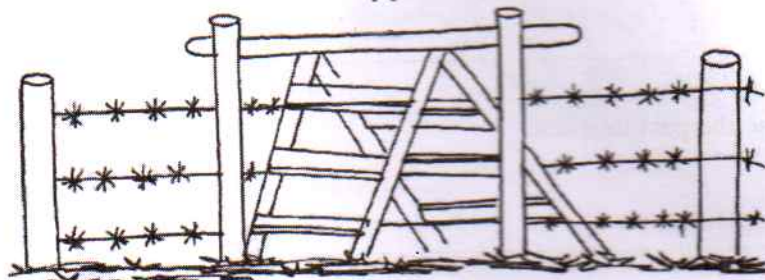
(c) Give **two** control measures for the disorder. (2 marks)

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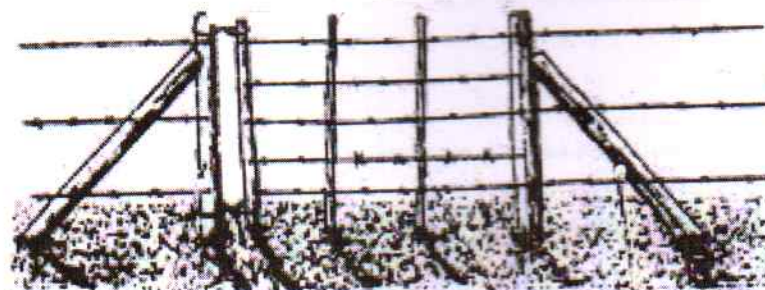
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19 The following pictures show parts of a farm structure.

K



L



(a) Identify the farm structure. (1 mark)

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(b) Name the part labelled:
K (1 mark)

.....

L (1 mark)

.....

(c) State **one** functional difference between the parts labelled **K** and **L**. (1 mark)

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(d) Give **one** maintenance practice for the part labelled **L**. (1 mark)

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SECTION C (40 marks)

Answer any **two** questions from this section in the spaces provided after question 22.

- 20** (a) Describe roundworm (*Ascaris spp*) infestation in livestock under the following sub-headings:
- (i) livestock infested; (2 marks)
 - (ii) symptoms of infestation; (4 marks)
 - (iii) control measures. (4 marks)

(b) Explain **five** conditions necessary for artificial incubation of eggs in poultry farming. (10 marks)

- 21** (a) Describe the rearing of a dairy calf under the following sub-headings:
- (i) feeding; (6 marks)
 - (ii) housing. (4 marks)
- (b) Describe the establishment of a barbed wire fence. (6 marks)
- (c) State **four** disadvantages of live fences. (4 marks)

- 22 (a) Give **five** reasons why inbreeding is discouraged in pig rearing. (5 marks)
- (b) A dairy animal dies on a farm and is suspected to have died of anthrax disease.
- (i) State **three** observations that the farmer could have made on the carcass to suspect anthrax disease. (3 marks)
 - (ii) Describe **four** precautions the farmer should take when disposing the carcass. (4 marks)
- (c) Describe how the following parts of the poultry digestive system are adapted to their function using the table provided.

#	Part	Adaptation	Function	Score
(i)	Beak			(2 marks)
(ii)	Crop			(2 marks)
(iii)	Gizzard			(2 marks)
(iv)	Caecum			(2 marks)
