

443/2 -

AGRICULTURE
(THEORY)

- Paper 2

Nov. 2018 - 2 hours

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 in the question paper.
- 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 all the questions in English.**



For Examiner's Use Only

| Section | Question | Maximum Score | Candidate's Score |
|--------------------|----------|---------------|-------------------|
| A | 1-16 | 30 | |
| B | 17-20 | 20 | |
| C | | 20 | |
| | | 20 | |
| Total Score | | 90 | |

SECTION A (30 marks)

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

1. State **six** characteristics of a good breeding stock.

(3 marks)

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2. State **four** reasons for maintaining farm tools and equipment.

(2 marks)

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3. State **four** reasons why a calf should be fed on colostrum.

(2 marks)

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4. Give **two** reasons for growing grass around a fish pond.

(1 mark)

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5. Name **four** systems of poultry rearing. (2 marks)

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6. State **three** advantages of contemporary comparison method of selecting breeding stock. (1½ marks)

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7. Give the meaning of the following terms as used in livestock breeding:

(a) close breeding (½ mark)

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(b) line breeding (½ mark)

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(c) out crossing (½ mark)

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(d) cross breeding (½ mark)

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8. State **four** livestock rearing practices undertaken in a crush to control parasites and diseases. (2 marks)

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9. Name the dairy cattle breed that

(a) produces the highest milk yield in kilograms

(½ mark)

(b) is fawn/brown coloured with white colour on the face, legs below knees and hocks, tail switch and flanks

(½ mark)

(c) is most suitable for marginal areas with poor pastures.

(½ mark)

10. Distinguish between each of the following breeding practices:

(a) crutching and ringing

(1 mark)

(b) tugging and serving

(1 mark)

11. What is a predisposing factor of a disease?

(1 mark)

12. State **four** candling qualities of good eggs for incubation.

(2 marks)

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13. Apart from the roof, name **four** other parts of a building that can be constructed using wood.

(2 marks)

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14. State **four** symptoms of internal parasite infestation in livestock.

(2 marks)

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15. State the functional difference between the following:

(a) cross-cut saw and rip saw

(1 mark)

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(b) wood chisel and cold chisel

(1 mark)

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16. Give the meaning of the following terms as used in livestock health:

(a) predisposing factor

(1 mark)

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(b) incubation period

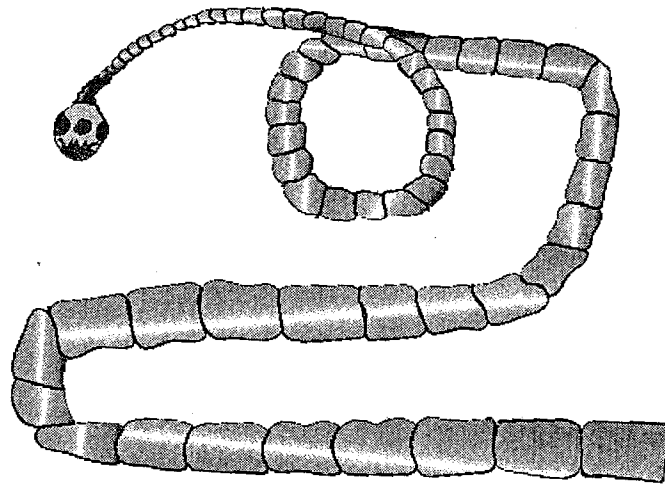
(1 mark)

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SECTION B (20 marks)

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

17. The diagram below shows a livestock parasite.



(a) Identify the parasite.

(1 mark)

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(b) Explain how the parasite is passed from

(i) livestock to human beings

(1 mark)

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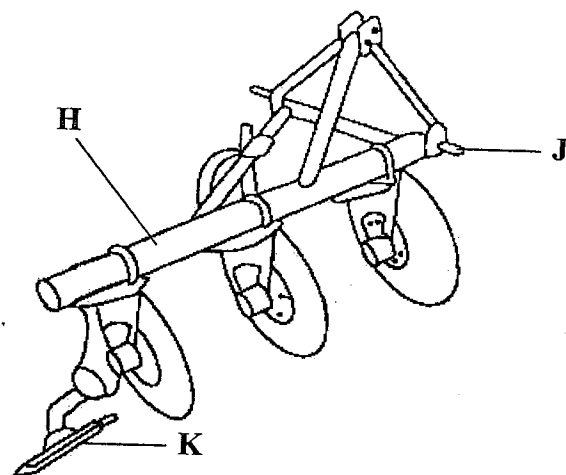
(ii) human beings to livestock (1 mark)

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(c) Explain **two** control measures for the parasite in a zero grazing unit. (2 marks)

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18. The diagram below illustrates a tractor drawn implement.



(a) Identify the implement (1 mark)

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(b) Name the part labelled

H (1 mark)

J (1 mark)

(c) State **one** function of the part labelled **K** (1 mark)

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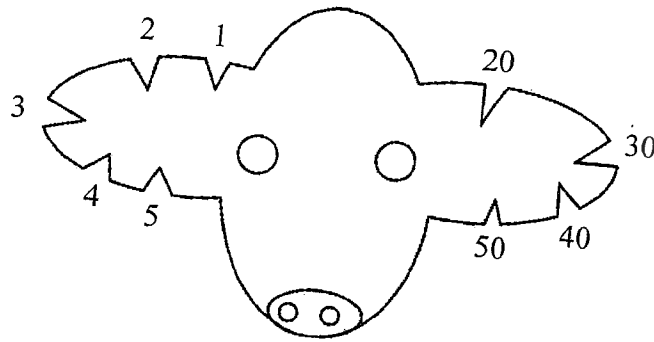
(d) Explain why the implement is suitable for ploughing areas with hidden stones. (1 m)

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19. A farmer is required to prepare 200 kg of dairy meal containing 18% digestible crude protein (DCP). Using the Pearson's Square Method, calculate the quantity of sunflower seed cake (34 DCP) and maize germ (7% DCP) the farmer requires for the dairy meal. (5 marks)

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20. The diagram below represents a practice of identifying livestock on a farm.



(a) Identify the practice

(1 mark)

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(b) Determine the number that identifies the animal represented by the illustration (1 mark)

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(c) Draw a diagram of the animal identified by the number 148 on the farm. (1 mark)

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(d) Give **two** reasons why this method of identification is discouraged in livestock rearing. (2 marks)

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SECTION C (40 marks)

Answer any two questions from this section in the spaces provided after question 23.

21. (a) Describe how natural incubation is set up and managed. (8 marks)
- (b) Describe the management of growers in poultry rearing. (5 marks)
- (c) Describe **seven** possible sources of power on a farm. (7 marks)
22. (a) Describe pneumonia disease under the following sub-headings:
- (i) causal organism (1 mark)
 - (ii) animals affected (2 marks)
 - (iii) predisposing factors (2 marks)
 - (iv) symptoms (5 marks)
 - (v) control measures. (3 marks)
- (b) Explain **seven** housing requirements for a calf. (7 marks)
23. (a) State **five** signs of heat in cattle. (5 marks)
- (b) State **five** advantages a spray race has over a plunge dip. (5 marks)
- (c) Give **five** reasons for maintaining livestock healthy. (5 marks)
- (d) Explain **five** factors that determine the amount of food eaten by a livestock animal. (5 marks)

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