

### 3.15 AGRICULTURE (443)

#### 3.15.1 Agriculture Paper 1 (443/1)

##### SECTION A (30 marks)

*Answer all the questions in the spaces provided.*

- 1 State **four** reasons for applying phosphatic fertilizers during planting. (2 marks)
- 2 Give **four** ways in which crop pests are classified. (2 marks)
- 3 State **four** advantages of landlordism and tenancy. (2 marks)
- 4 Differentiate between apiculture and aquaculture. (1 mark)
- 5 State **four** factors that affect the quality of farm-yard manure. (2 marks)
- 6 Give **four** reasons why seed propagation is encouraged in crop production. (2 marks)
- 7 State **four** factors that can make a farmer choose a jembe for primary tillage. (2 marks)
- 8 Give **four** factors that affect the quality of hay. (2 marks)
- 9 Name **five** entries that can be made on a cattle breeding record. (2½ marks)
- 10 Give **two** reasons for testing soil. (1 mark)
- 11 Name **three** forms of horticulture practised in Kenya. (1½ marks)
- 12 Give **two** reasons for constructing a shade over a nursery. (1 mark)
- 13 Name **four** appropriate sites for agroforestry trees. (2 marks)
- 14 State **four** personal safety measures a farmer should consider when handling herbicides. (2 marks)
- 15 Give **two** reasons why a maize plant growing in a cabbage crop field may be treated as a weed. (1 mark)
- 16 Name **four** classes of weeds. (2 marks)
- 17 State **four** agricultural activities that may pollute water. (2 marks)

### 3.15.2 Agriculture Paper 2 (443/2)

#### SECTION A (30 marks)

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

- 1 Name **four** rabbit breeds reared in Kenya. (2 marks)
- 2 State **four** characteristics of desirable eggs for marketing. (2 marks)
- 3 Name **two** types of roughage. (1 mark)
- 4 Give **four** disadvantages of inbreeding in livestock. (2 marks)
- 5 Name the nutritional deficiency for each of the following livestock diseases:
  - (a) milk fever; ..... ( $\frac{1}{2}$  mark)
  - (b) bloat. .... ( $\frac{1}{2}$  mark)
- 6 Give **two** reasons for docking in sheep rearing. (1 mark)
- 7 State **four** signs of fowl typhoid. (2 marks)
- 8 Differentiate between drift and pen lambing. (2 marks)
- 9 State **four** features on the animal which may predispose it to livestock diseases. (2 marks)
- 10 Give **four** factors that affect milk composition. (2 marks)
- 11 State **two** control measures for keds in sheep. (1 mark)
- 12 State **two** maintenance practices carried out on a greenhouse structure. (1 mark)
- 13
  - (a) Name the goat breed which is brown in colour with white strips running down the face to the nose. ( $\frac{1}{2}$  mark)
  - (b) State **four** rearing practices that necessitate handling of piglets. (2 marks)
- 14 Give **four** preventive measures for livestock diseases. (2 marks)
- 15 State **one** function of each of the following parts during egg formation in poultry:
  - (a) funnel; (1/2 mark)
  - (b) magnum; (1/2 mark)
  - (c) isthmus. (1/2 mark)

16 The following is a list of poultry breeds:

White Leghorn  
Light Sussex  
Rhode Island Red  
Ancona.

Categorize them into:

- (a) light breeds; (1 mark)
- (b) heavy breeds. (1 mark)

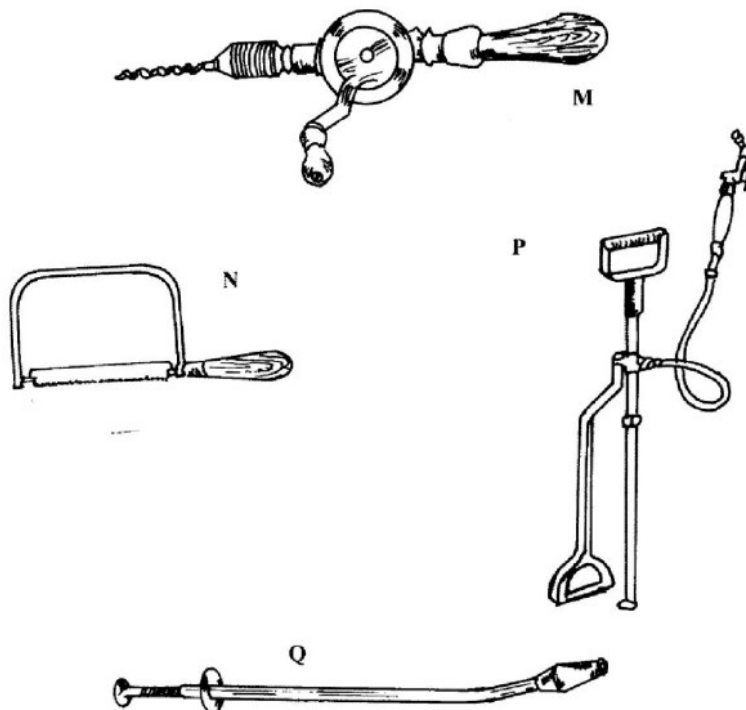
17 State **two** functions of a queen in a bee colony. (1 mark)

18 State **four** maintenance practices carried out on a fish pond. (2 marks)

**SECTION B: (20 marks)**

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

19 The diagrams below represent some farm tools and equipment. Study them and answer the questions that follow.



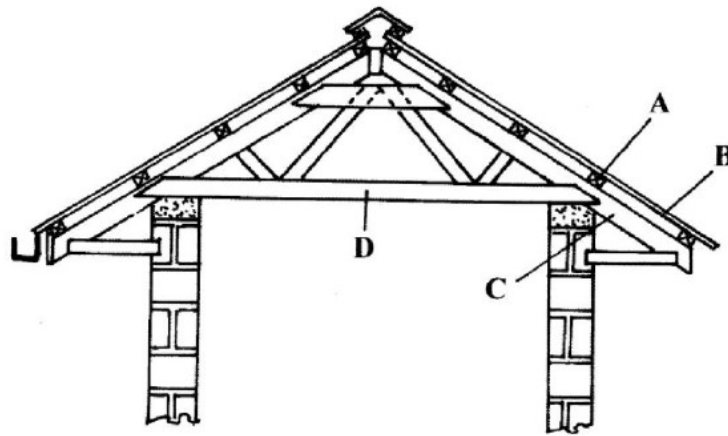
(a) Identify the tools labelled N and P.

N ..... (1 mark)

P ..... (1 mark)

(c) Explain **one** maintenance practice carried out on the equipment labelled P. (1 mark)

20 The diagram below represents parts of a roof.



(a) Identify the parts labelled A and C.

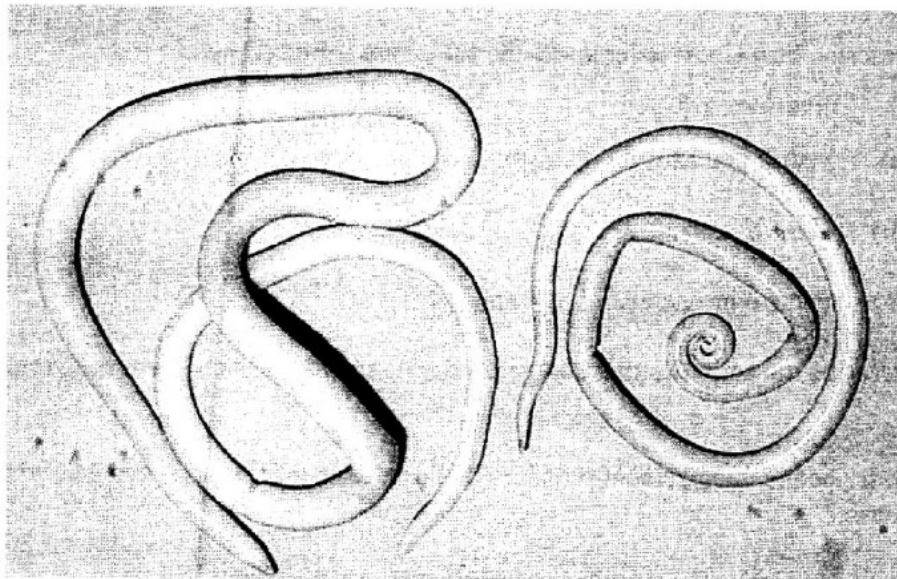
A ..... (1 mark)

C ..... (1 mark)

(b) State **two** types of materials that may be used for the part labelled D. (2 marks)

(c) Give **one** disadvantage of using thatch for the part labelled B. (1 mark)

21 The diagram below illustrates an internal parasite of livestock.



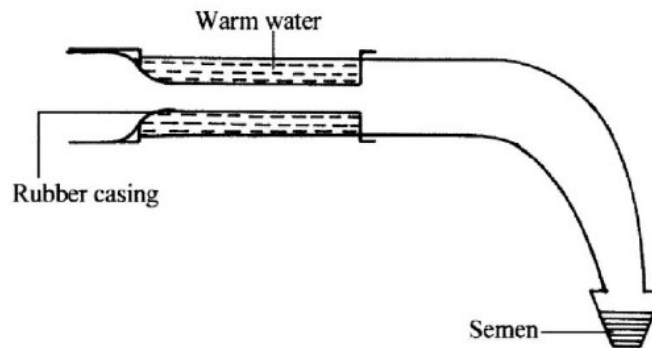
(a) Identify the parasite. (1 mark)

(b) Name **two** common species of the parasite illustrated above. (2 marks)



- (c) State **two** signs of worm infestation that may be observed in the dung of livestock. (2 marks)

22 Below is a diagram illustrating an instrument used in cattle breeding.



- (a) Identify the instrument. (1 mark)  
 (b) State the role of the instrument in cattle breeding. (1 mark)  
 (c) When would it be appropriate to serve a cow after the onset of heat? (1 mark)  
 (d) Apart from the method in which the above instrument is used, name **two** other methods of serving a cow. (2 marks)

**SECTION C: (40 marks)**

Answer any **TWO** questions from this section in the spaces provided after **question 25**.

- 23 (a) Give the functions of any **five** parts of a poultry egg. (10 marks)  
 (b) Describe the uses of **five** materials/equipment required for hand milking. (10 marks)
- 24 (a) Describe East Coast fever under the following sub-headings:  
 (i) livestock affected; (1 mark)  
 (ii) vector and causal organism; (2 marks)  
 (iii) signs of attack; (5 marks)  
 (iv) control measures. (2 marks)
- (b) Describe the activities that take place during the digestion process in the rumen. (5 marks)
- (c) Describe the management practices that ensure proper hygiene in a deep litter poultry house. (5 marks)
- 25 (a) State **five** signs of external parasite infestation in livestock. (5 marks)  
 (b) Explain **five** factors that should be considered when siting a farm store. (5 marks)  
 (c) Describe the cycle of a four stroke petrol engine. (10 marks)