

3.16.2 Agriculture Paper 2 (443/2)

SECTION A (30 marks)

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

- 1 Name **one** breed of livestock under each of the following categories:
 - (a) dairy cattle (½ mark)
 - (b) dual purpose cattle (½ mark)
 - (c) dual purpose sheep (½ mark)
 - (d) hair goat (½ mark)
- 2 State **four** egg abnormalities observed during egg candling. (2 marks)
- 3 Give **four** reasons for livestock breeding. (2 marks)
- 4 Give **two** reasons for hoof trimming. (1 mark)
- 5 State **four** signs of Anthrax disease. (2 marks)
- 6 Name **four** methods of dehorning (2 marks)
- 7 Give **four** reasons for keeping dairy animals healthy (2 marks)
- 8 State **four** features of a clean milkman. (2 marks)
- 9 Name **four** maintenance practices for a wire fence. (2 marks)
- 10 State **four** reasons why dorper breed of sheep is good for mutton production. (2 marks)
- 11 State **four** control measures for tsetse flies. (2 marks)
- 12 Explain how each of the following is measured in cattle:
 - (a) blood temperature (½ mark)
 - (b) respiratory rate (½ mark)
 - (c) pulse rate. (½ mark)



13 State the gestation period for each of the following:

- (a) cow (½ mark)
(b) sow (½ mark)
(c) ewe (½ mark)
(d) rabbit. (½ mark)

14 State **four** features of large white breed of pigs. (2 marks)

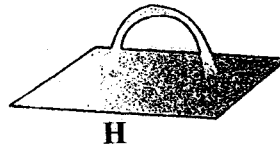
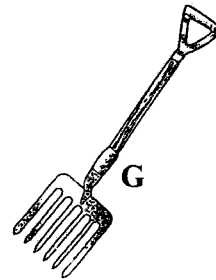
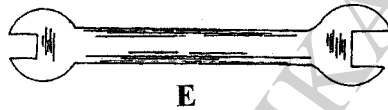
15 State **four** functions of worker bees in a bee colony. (2 marks)

16 State **three** ways of caponisation in poultry. (1½ marks)

SECTION B (20 marks)

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

17 The diagrams below represent farm tools and equipment.



(a) Identify the tools labelled **E** and **F**.

E (1 mark)

F (1 mark)

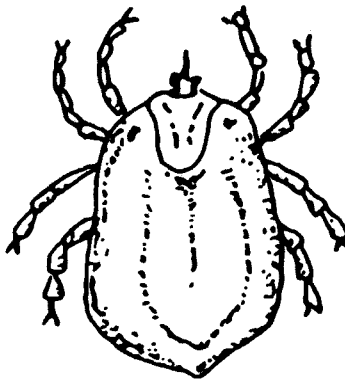
(b) State **one** use of each of the tools labelled **F** and **G**.

F (1 mark)

G (1 mark)

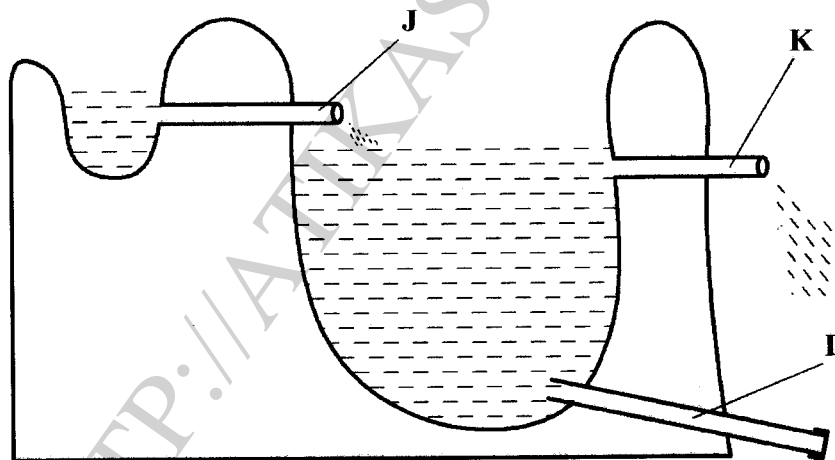
(c) State **one** advantage the tool labelled **F** has over **E**. (1 mark)

18 The diagram below illustrates an external parasite of livestock.



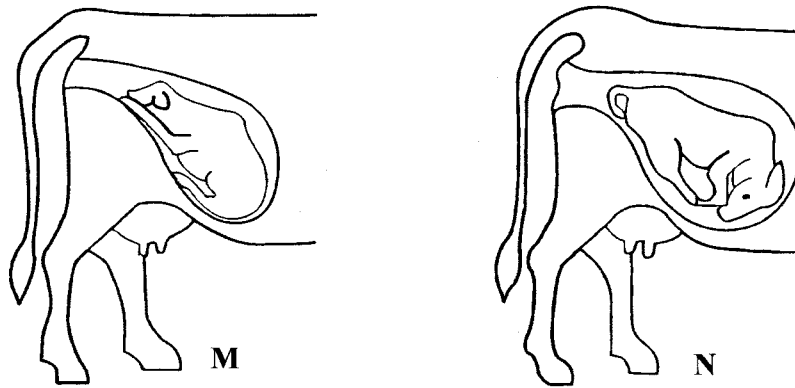
- (a) Identify the parasite. (1 mark)
- (b) Apart from eggs and adults, name **two** other developmental stages of the parasite illustrated above. (1 mark)
- (c) Name **two** livestock diseases transmitted by the illustrated parasite. (1 mark)
- (d) Explain **two** ways in which the environment is altered to control the parasite illustrated above. (2 marks)

18 The diagram below shows a cross section of a fish pond



- (a) Name the part labelled
 - J (1 mark)
 - K (1 mark)
- (b) State **one** function of the part labelled L. (1 mark)
- (c) Give **one** reason why a pond should have a deep end. (1 mark)
- (d) Explain how fingerlings are introduced into a pond? (1 mark)

20 The diagram below shows calf presentations during parturition.



- (a) Name the presentation labelled
- M (1 mark)
- N (1 mark)
- (b) Which **one** of the two presentations requires the services of a qualified stockman? (1 mark)
- (c) State **two** signs of parturition observed on the vulva. (2 marks)

SECTION C (40 marks)

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

- 21 (a) Describe **ten** characteristics of a good layer. (10 marks)
- (b) Describe the milking procedure under the following sub-headings:
- (i) pre-milking practices (5 marks)
- (ii) procedure of proper milking. (5 marks)
- 22 (a) Describe Brucellosis disease in cattle under the following sub-headings:
- (i) causal organism (1 mark)
- (ii) signs of attack (4 marks)
- (iii) control measures. (5 marks)
- (b) Explain **five** factors that affect the digestibility of a feed material. (5 marks)
- (c) Explain **five** requirements of an artificial brooder in poultry rearing. (5 marks)
- 23 (a) State **five** harmful effects of lice in pigs. (5 marks)
- (b) Explain **five** structural requirements for a grain store. (5 marks)
- (c) Describe **five** maintenance practices for the water cooling system of a tractor. (5 marks)
- (d) Give **five** differences between diesel and petrol engines. (5 marks)