

SECTION A (30 marks)

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

1. Give **four** maintenance practices carried out on a knapsack sprayer. (2 marks)
2. State **four** reasons why rabbits are kept by farmers in Kenya. (2 marks)
3. State **four** maintenance practices carried out on a piggery unit. (2 marks)
4. Name the **four** stomach compartments of a ruminant. (2 marks)
5. State **four** causes of stress in poultry. (2 marks)
6. Give **one** reason why the milkman should:
  - (a) milk at regular intervals (½ mark)
  - (b) avoid milking with wet hands (½ mark)
  - (c) milk quickly and evenly (½ mark)
  - (d) practice complete milking (½ mark)
7. State **four** factors that determine the amount of feed an animal consumes. (2 marks)
8. Give **one** use of each of the following farm tools:
  - (a) pipe wrench (½ mark)
  - (b) tenon saw (½ mark)
  - (c) spoke shave (½ mark)
  - (d) elastrator. (½ mark)
9. State **four** control measures for *Brucellosis* in cattle. (2 marks)
10. (a) Give **two** roles of wood shavings used as litter in the artificial brooder. (1 mark)  
(b) Give **two** reasons why a chicken brooder should have a round shape. (1 mark)

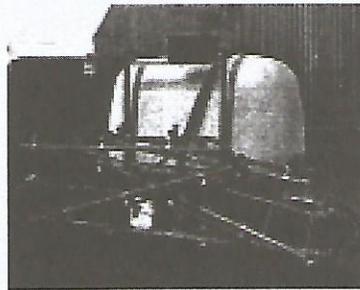
11. Name **four** parts of the ignition system of a petrol engine. (2 marks)
12. (a) State **two** signs that show a rabbit is about to give birth. (1 mark)
- (b) If a doe was served on 7th March 2021, determine the date it gave birth. ( $\frac{1}{2}$  mark)
- (c) What is the name given to the young one of a rabbit? ( $\frac{1}{2}$  mark)
13. State **four** advantages of artificial calf feeding. (2 marks)
14. Give **four** characteristics of clean milk. (2 marks)
15. (a) Name **two** methods of service used in livestock breeding. (1 mark)
- (b) Name **two** cattle diseases controlled through Government-imposed quarantine in Kenya. (1 mark)

SECTION B (20 marks)

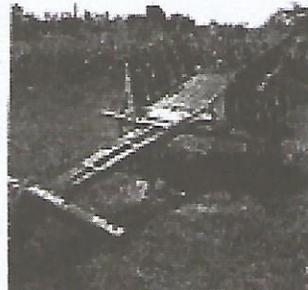
Answer *all* the questions in this section in the spaces provided.

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16. The diagrams R and S show farm implements.



R



S

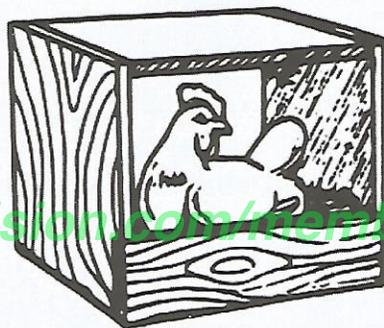
- (a) Name the source of power used to operate the farm implement labelled:
- R (1 mark)
- S (1 mark)
- (b) State the means by which the farm implement labelled S is attached to its source of power. (1 mark)
- (c) Give **two** maintenance practices carried out on the implement labelled R. (2 marks)

17. The diagram below shows a parasite commonly observed on sheep.



- (a) Identify the parasite. (1 mark)
- (b) State **four** harmful effects of the parasite in sheep rearing. (4 marks)

18. The diagram below shows a method of incubation in poultry rearing.



- (a) Identify the method of incubation shown above. (1 mark)
  - (b) State **four** advantages of the method of incubation shown in Question 18. (4 marks)
19. A poultry farmer wants to prepare 200 kilograms of chick mash containing 20% Digestible Crude Protein (DCP). Calculate the amount of maize (10% DCP) and fish meal (60% DCP) the farmer requires to make the chick mash. Use the Pearson's square method and show your working. (5 marks)

SECTION C (40 marks)

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

20. (a) Describe calf scours under the following subheadings:
- (i) causal organism. (1 mark)
  - (ii) predisposing factors. (3 marks)
  - (iii) control measures. (4 marks)
- (b) Describe the rearing of day-old layer chicks up to the age of eight weeks. (12 marks)
21. (a) Describe milk secretion in a dairy cow. (5 marks)
- (b) Describe **six** factors that are considered when selecting a gilt for breeding. (6 marks)
- (c) Give **nine** reasons why the battery cage system of rearing is popularly used by large scale poultry farmers. (9 marks)
22. (a) Describe **five** management practices carried out on a fish pond. (5 marks)
- (b) (i) Give **five** reasons for farm mechanisation. (5 marks)
- (ii) Describe **six** symptoms observed on a calf heavily infested with internal parasites. (6 marks)
- (c) Give **four** routine rearing practices in the handling of livestock. (4 marks)