

Name: _____ Index No: _____

School: _____ Candidate's Sign _____

Date: _____

443/2

AGRICULTURE

Paper 2(Theory)

MARCH/APRIL 2020

Time: 2 Hours

**ARISE AND SHINE TRIAL 1 EXAM
MACHI/APRIL-2020**

Instructions to Candidates:

- a) Write your name and index number in spaces provided above
- b) This paper consists of **THREE** sections: A, B and C
- c) All answers should be written in the spaces provided on this question paper.
- d) Candidates should answer the questions in English.

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 18	30	
B	19 - 23	20	
C	24	20	
	25	20	
	26	20	

TOTAL SCORE	90	
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SECTION A [30 MARKS]

Answer All The Questions in The Spaces Provided.

1. Name **four** exotic beef cattle breeds most reared in Kenya. [2 marks]
(i)
(ii)
(iii)
(iv)
2. If a sow was successfully served on 27th September 2019, state the date she is likely to have furrowed. [1 mark]
(i)
(ii)
3. Give **two** importance of docking in rams. [1 mark]
(i)
(ii)
4. Mention **four** causes of stress in a flock of Birds (2 marks)
(i)
(ii)
(iii)
(iv)
5. Name **two** nutritional disease of cattle. [1 marks]
(i)
(ii)
6. State **four** methods of preserving fish. [2 marks]
(i)
(ii)
(iii)
(iv)
7. State **four** disadvantages of free range system of poultry rearing. (2 marks)

- (i)
- (ii)
- (iii)
- (iv)

8. State **four** advantages of a Kenya top bar hive. [2 marks]

- (i)
- (ii)
- (iii)
- (iv)

9. Name **two** diseases that affect female animals only. [1 mark]

- (i)
- (ii)

10. Name **four** tick borne diseases [2 marks]

- (i)
- (ii)
- (iii)
- (iv)

11. State **four** ways of vaccinating livestock. [2 marks]

- (i)
- (ii)
- (iii)
- (iv)

12. Name **three** notifiable livestock diseases in Kenya. [1 ½ marks]

- (i)
- (ii)
- (iii)

13. State **four** ways of identifying livestock. [2 marks]

- (i)
- (ii)

(iii)

(iv)

14. List **four** safety precautions taken into consideration when using with farm tools.[2 marks]

(i)

(ii)

(iii)

(iv)

15. State **three** causes of piglet mortality. [1 ½ mark]

(i)

(ii)

(iii)

16. Give **four** characteristics of roughages feeds. (2 marks)

(i)

(ii)

(iii)

(iv)

17. Give **four** reasons why camels are suited to living in arid areas. (2 marks)

(i)

(ii)

(iii)

(iv)

18. Name the parental breeds of the dorper. (1 mark)

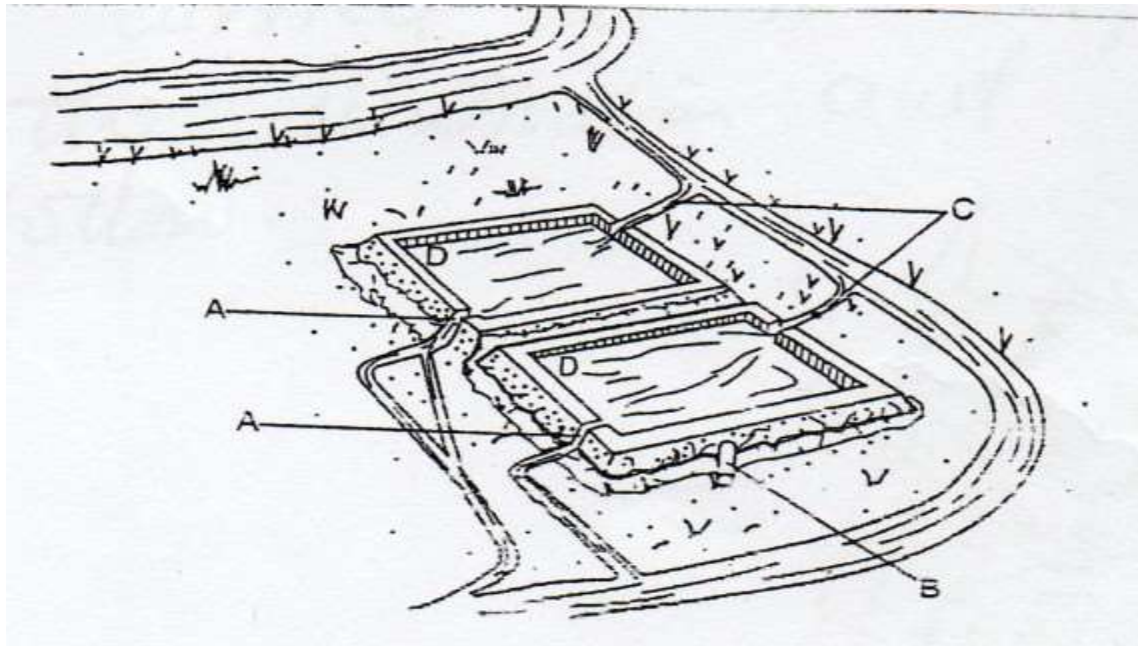
(i)

SECTION B [20 MARKS]

Answer all questions in this section in the spaces provided.

19. A poultry farmer has maize containing 8% DCP and Soya beans containing 43% DCP. If the farmer wants to make 100kg of a feed, using the person’s method calculate the proportions in which the two ingredients would have to be mixed to make a feedstuff containing 15% DCP. (Show your working). (5 marks)

20. Below is an illustration of a fish pond. Study it carefully and then answer the following questions.



21. a). Give the reason why part D is usually deeper than the rest of the pond. (1 mark)

(b). Name the part labelled A, B and C. (1 ½ mark)

A

B

C

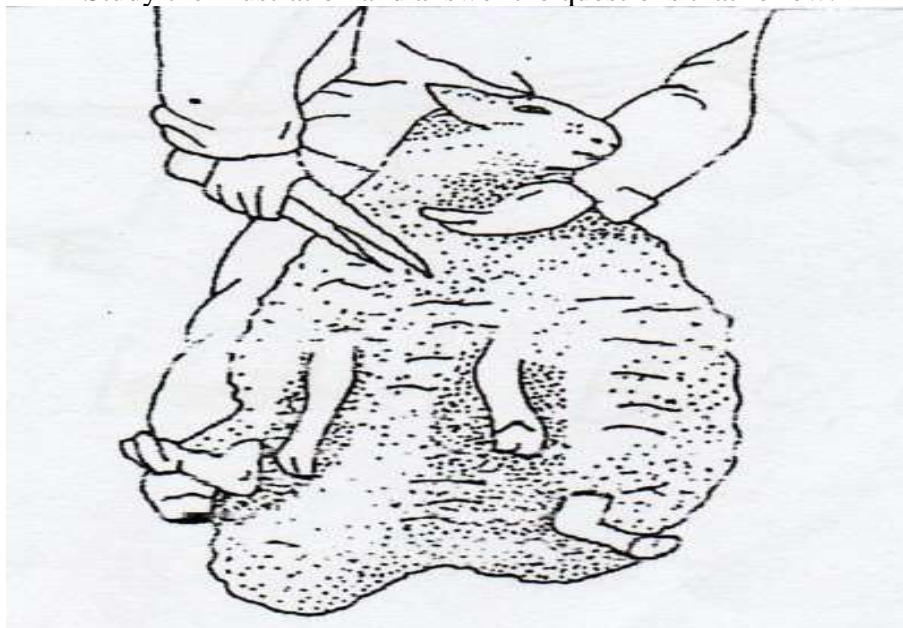
(c). State **three** maintenance practices that should be carried out on the fish pond. (1 ½ mark)

- (i)
- (ii)
- (iii)

(d). Give **two** reason why a fence should be constructed around the fish pond. (1 marks)

- (i)
- (ii)

22. The following illustration represent a certain practice carried out in sheep management.
Study the illustration and answer the questions that follow.



(a). Identify the practice. (1 mark)

(b). Name the tool being used in carrying out the practice. (1 mark)

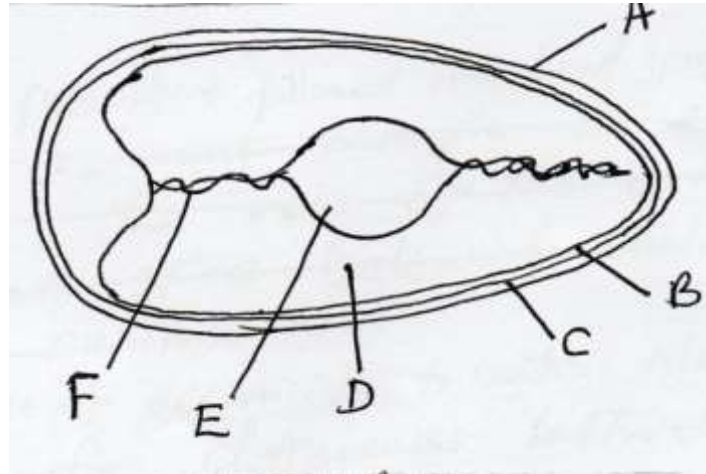
(c). State two precautions that should be take when carrying out this practice. (2 marks)

- (i)
- (ii)

(d). Name a breed of sheep reared for wool production. (1 mark)

(i)

22. The following is diagram of an egg. Study it carefully and answer the questions that follow.



(a). Name the part labelled B,C,D and F. (2 marks)

- B
- C
- D
- F

(b). State **two** qualities of the part labelled A that should be considered when selecting egg for incubation. (2 marks)

- (i)
- (ii)

(c). What is the function of the part labelled E in a fertilized egg? (1 mark)

SECTION C. (40 MARKS)

Answer any two questions in this section in space provided at the back..

24. (a). Describe the feeding of bees under bee keeping. (5 marks)

(b). Describe the management practices that a farmer should carry out to improve milk production in a low yielding herd of dairy cattle. (15 marks)

25. (a). Outline the procedure followed when hand spraying cattle to ensure effective use of acaricide to control ticks. (10 marks)

(b). Outline five differences between exotic cattle breeds and indigenous cattle breed. (5 marks)

(c). Outline five qualities of a good grain store. (5 mark)

26. (a). Describe the role of the various components of a balanced diet in livestock nutrition. (10 marks)

(b). Give five reasons of keeping livestock healthy. (5 marks)

(c). Outline five predisposing factors of mastitis in lactating cows. (5 marks)
