

NAME..... INDEX NO.....

443/2
AGRICULTURE
PAPER 2
TIME: 2 HOURS

CANDIDATE'S SIGN.....

DATE.....



Atika School

F r e e O n l i n e A c a d e m y

INSTRUCTIONS TO CANDIDATES:

- (a) Write your **name** and **index number** in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of **THREE** Sections **A**, **B** and **C**.
- (d) Answer all questions in Section **A** and **B**
- (e) Answer any **Two** in Section **C**.
- (f) All answers must be written in the spaces provided.
- (g) This paper consists of 11 printed pages.
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

FOR EXAMINER'S USE ONLY

Section	Question	Maximum Score	Candidate's Score
A	1 - 23	30	
B	24 – 27	20	
C	28 -30	40	
Total Score		90	

SECTION A: (30 MARKS)

Answer all questions in this section in the spaces provided.

1. State any **two** causes of infertility in cattle. (1mk)

2. Mention two dual purpose breeds of sheep. (1mk)

3. Differentiate between the following terms quarantine and isolation. (1mk)

4. Give the meaning of the following terms as used in livestock production. (2mks)

(i) Cockerel _____

(ii) Capon _____

(iii) Ewe _____

(iv) Gilt _____

5. State **two** reasons why walls of a dairy shed should be white washed instead of oil painting. (1mk)

6. Give **three** factors that inhibit milk letdown in lactating cows. (1½mks)

7. State tools and equipment used alongside with the following in livestock production. (2mks)

(a) Needle _____

(b) Rubbering _____

(c) Canula _____

(d) Lead stick _____

8. State the functions of the following parts of power transmission system in a tractor. (1½mks)

(i) Draw bar _____

(ii) Propeller shaft _____

(iii) Hydraulic system _____

9. Name one intermediate host in the lifecycle of a

(a) Liver fluke. _____ (½mk)

(b) Tapeworm. _____ (½mk)

10. State **three** factors that determine the depth and size of foundation in a farm building. (1½mks)

11. Give **three** reasons why wind power is not reliable enough to be used in the farm. (1½mks)

12. Give functional difference between a rip saw and a cross cut saw. (1mk)

13. List **four** functions of protein in livestock. (2mks)

14. State **two** signs that would indicate that a cow has died of anthrax. (1mk)

15. State **one** reason for egg turning during incubation. (1mk)

16. Give **two** functions of reticulum in the process of digestion of a ruminant animal. (1mk)

17. List **two** ways of adjusting depth of harrowing in a disc harrow. (1mk)

18. State **four** characteristics of dairy breed of cattle. (2mks)

19. Differentiate between the following terms:-
Crutching and ringing. (1mk)

20. Give **four** ways of vaccinating animals in livestock production. (2mks)

21. Give **two** rules observed when milking a cow for high milk production. (1mk)

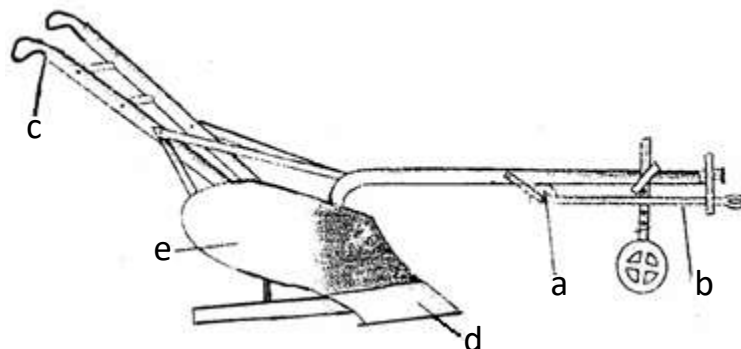
22. State **three** popular methods of harvesting fish from a fish pond. (1½mks)

23. Name the species of camel with two humps. (½mk)

SECTION B: (20 MARKS)

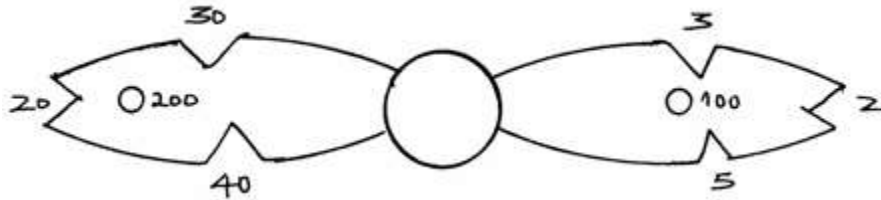
Answer all questions in this section in the spaces provided.

24. (a) The diagram below shows an ox-plough identify the part marked **a – c**. (3mks)

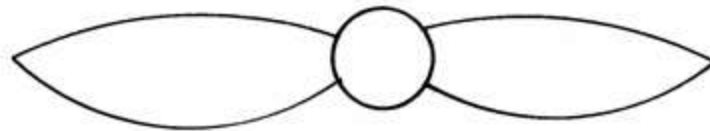


- (b) Outline the functions of the part marked **d** and **e**. (2mks)

25. The illustration below shows a method of identifying pig. Study the diagram and answer the questions that follow.



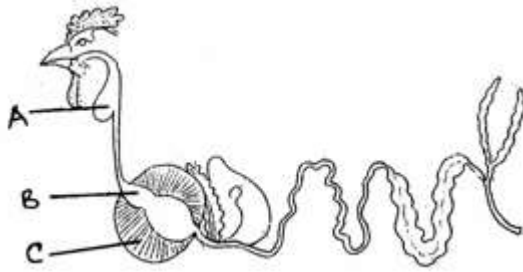
- (a) (i) On the diagram **A** provided below draw the mark to indicate a pig No.147 using the procedure of the ear notching in diagram. (1mk)



- (ii) What is the recommended stage of growth in pigs at which the ear notching should be carried out? (1mk)

- (b) A farmer wants to produce a poultry feed containing 16% CP (crude protein) from maize meal with 9% CP and cotton seed cake with 30% CP. Using pearson square method calculate the amount of maize and cotton seed cake required to produce a ration weighing 100kg. (3mks)

26. The following is a diagram showing part of the poultry's digestive system. Use it to answer the question that follow.



- (i) Name the parts labelled **A**, **B**, **C**. (3mks)

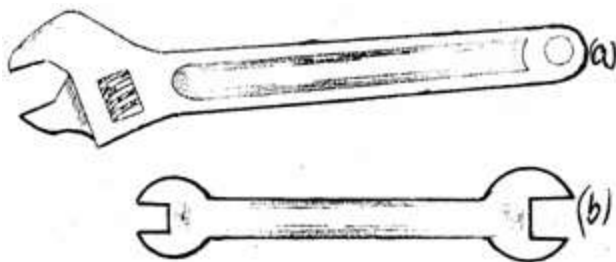
A _____

B _____

C _____

- (ii) Give **two** structural adaptations of **C** to its functions. (2mks)

27. The diagram below shows examples of workshop tools and equipment.



- (i) Identify tool **(a)**. _____ (1mk)

- (ii) Identify tool **(b)**. _____ (1mk)

- (b) State **one** advantage of tool **a** over tool **b**. (1mk)

- (c) State the maintenance practices of the above tools. (2mks)

SECTION C: (40 MARKS)

Answer any two questions from the section.

28. (a) Explain the functions of the following parts of a petrol ignition system:
- (i) Ignition coil. (1mk)
 - (ii) Distributor. (1mk)
 - (iii) Contact breaker. (1mk)
 - (iv) Condenser. (1mk)
- (b) State the maintenance practices of the ignition system. (6mks)
- (c) State the care and maintenance practices of a tractor battery. (6mks)
- (d) Give **four** appropriate ages for debeaking. (4mks)
29. (a) State advantages of Kenya top bar hives over a log hive. (4mks)
- (b) Describe brucellosis under the following subheading:-
- (i) Cause. (1mk)
 - (ii) Transmission. (1mk)
 - (iii) Symptoms (4mks)
 - (iv) Control measures. (4mks)
- (c) Explain advantages of spray race over cattle dip. (6mks)
30. (a) Describe the management of sheep starting from preparation for mating up to and including weaning of lambs. (10mks)
- (b) Outline advantages of using animal power instead of using tractor power. (5mks)
- (c) Describe the factors to consider in siting farm structures. (5mks)







