

Name.....

Index No.....

Candidate's sign.....

Date.....

443/2
AGRICULTURE
Paper 2
March/April, 2011
2 ½ Hours

MOKASA JOINT EVALUATION EXAMINATION
Kenya Certificate of Secondary Education
443/2
AGRICULTURE
Paper 2
March/April, 2011
2 ½ Hours

Instructions to candidates

1. Write your name and index number in the spaces provided.
2. This paper consist of three sections; A, B and C
3. Answer all questions in Section A and B.
4. Answer any two questions from section C
5. Answer questions on foolscap provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 18	30	
B	19 - 24	20	
C		20	
		20	
TOTAL SCORES		90	

SECTION A (30 marks)

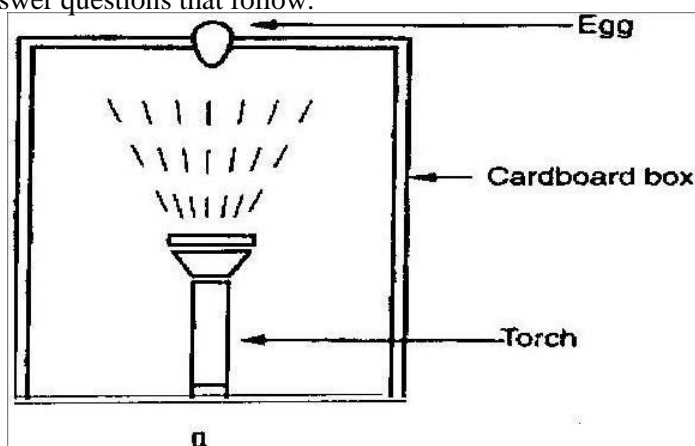
Answer all questions in this section in the spaces provided

1. State four factors that affect digestibility of feeds in livestock (2 mks)
2. State three disadvantages of using steel material in construction of farm buildings (1 ½ mks)
3. Name an equipment used for processing butter from cream (½ mk)
4. (a) State three reasons why tilapia is popular in Kenya (1 ½ mks)
(b) Give three factors that make camels to survive in the semi- arid environments (1 ½ mks)
5. Give a reason why drenching alone is not an effective method of controlling parasites in livestock (½ mks)
6. Name the ingredients represented by the ratios 1:2:3 in making concrete blocks (1 ½ mks)
7. State five conditions which would lead to a farmer use an animal power instead of tractor power in seedbed preparations (2 ½ mks)
8. State four managements practices that should be carried out during the mating seasons in sheep (2 mks)
9. List five tools used when constructing wooden fence (2 ½ mks)
10. State two functions of a coulter in a moldboard plough (1 mk)
11. State the functions of the following parts in a tractor
(a) Dipstick (½ mk)
(b) Differential (½ mk)
12. Give three infections diseases that can spread through contact in cattle (1 ½ mk)
13. Give the name of the breeds of livestock with the following distinguishing characteristics
(a) Beef breed with white or creamy colour (1 ½ mk)
(b) Pig breed which is black in colour with some white colour on the feet, nose and tail (1 ½ mks)
14. Give three ideal conformation features of beef cattle (1 ½ mks)
15. State four maintenance practices of fish ponds (2 mks)
16. State four methods of increasing tractor wheel grip on ground (2 mks)
17. Name four circuits found in an electric system of a tractor (2 mks)
18. Give four reasons for breeding in livestock production (2 mks)

SECTION B (20 MARKS)

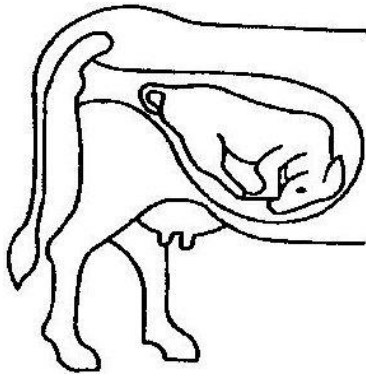
Answer all the questions in this section in the spaces provides

19. The diagram Q below illustrates activity carried out by a poultry famer keeping layers. Study the diagram carefully and answer questions that follow.



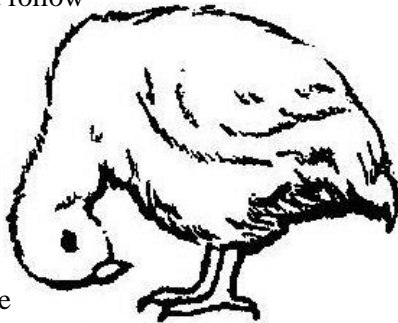
- (i) Identify the activity carried out using the set up illustrated in diagram Q (½ mk)
- (ii) State four abnormalities in eggs that can be detected using the et up illustrated above (2mks)
- (iii) Give three characteristics of eggs selected for incubation (1 ½ mks)

20. Study the illustration below and answer questions that follows



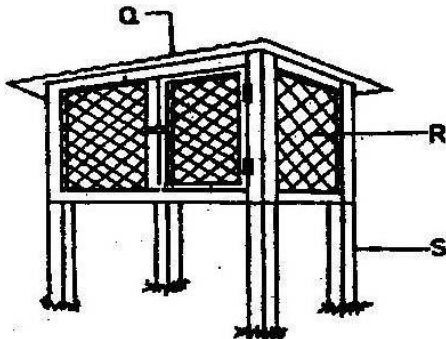
- (a) What term is used to refer to the condition illustrated above (½ mk)
- (b) State three signs of pregnancy in cattle (1 ½ mks)
- (c) If a rabbit doe was served on 24th February 2011 and conceived. Give the date it is expected to kindle (½ mk)

21. The following diagram illustrates a symptom of a disease in poultry. Study it carefully and answer the questions that follow



- (a) Identify
 - (i) The disease (½ mk)
 - (ii) Apart from bending of the head, state three other symptoms of the disease (1 ½ mk)
- (b) State two control measures for the disease (2 mks)

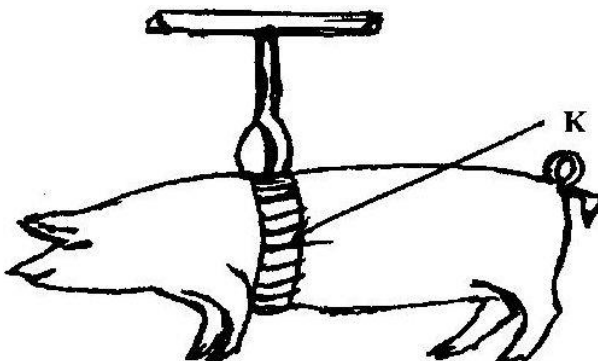
22. Below is an illustration of a livestock structure. Study it carefully and answer questions that follow.



- (a) Give three factors to be considered when siting the rabbit butch (1 ½ mks)
- (b) Name the materials used for constructing the parts labeled Q, R and S (1 ½ mks)
- (c) (i) How should the materials used for constructing parts Q and S be treated so as to last long (1 mk)
- (d) Give reason for raising the rabbit hutch above the ground level (1 mk)

23. Study the illustration below and answer questions that follow

- (i) Name the equipment shown by letter K above (½ mk)
- (ii) What is the function of K above (1mk)

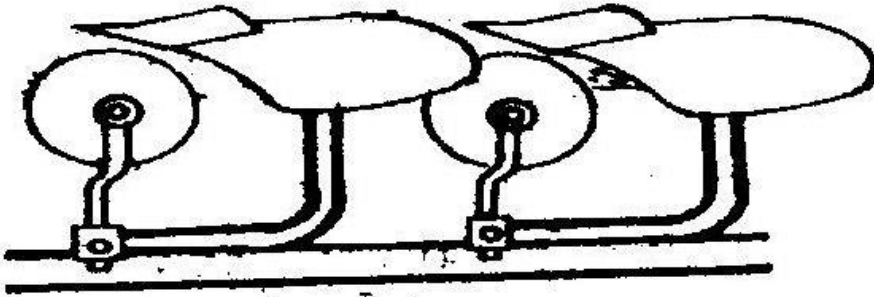


24. Study the diagrams below and answer question that follow

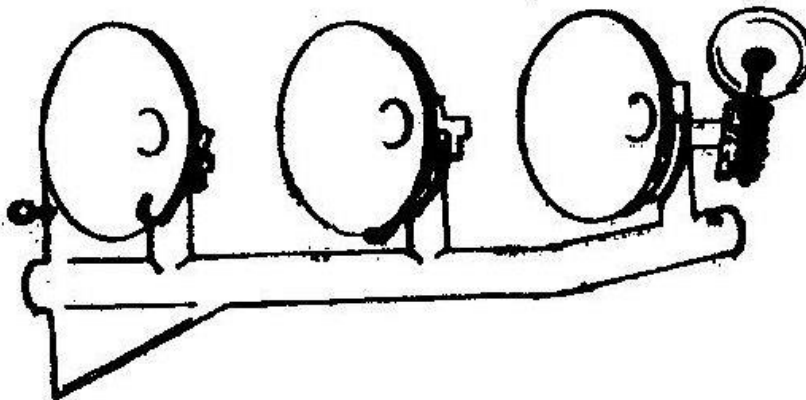
(i) Identify the implements illustrated in diagrams G and H (1 mk)

(ii) State two functional differences of a disc plough and a mouldboard plough (2 mks)

H



G



SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided at the end of the section

25. (a) Describe the signs of heat in cows (10 mks)
(b) Discuss the care of a day old chicks as soon as they arrive from the hatches (10 mks)
26. (a) Describe the procedures of processing honey using the heat method (7 mks)
(b) State the function of any eight parts of cattle dip (8 mks)
(c) Explain five ways in which endo- parasites can be harmful to the livestock (5 mks)
27. (a) Discuss the operations of each stroke in a two- stroke cycle engine (8 mks)
(b) Discuss the factors affecting the choice of structural materials in the farm (8 mks)
(c) Outline the advantages of farm mechanization (4 mks)