

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

SCHOOL CAND. SIGN.....

443/2

AGRICULTURE

PAPER 2

JULY/AUGUST 2013

Time: 2 HOURS

MARANDA HIGH SCHOOL –MOCK EXAMINATION
Kenya Certificate of Secondary Education – Mock Paper2

INSTRUCTION TO CANDIDATES

- This paper consists of **THREE** sections: **A, B** and **C**.
- Answer **ALL** questions in section **A** and **B**
- **ANY** Two questions from section **C**.
- **ALL** answers must be written in the spaces provided.

SECTION	MARKS	CAND. SCORE
A	30	
B	20	
C	40	
TOTAL SCORE	90	

SECTION A (30MKS)

Answer all questions

1. List two methods of identification of livestock that do cause pain to the animal. (1mk)

2. Mention two ways in which the gizzard is adapted to its function. (1mk)

3. Give four main causes of livestock diseases. (2mks)

4. State three reasons that render vaccines ineffective after administration to livestock. (1½mks)

5. Name four main dairy breeds of goats reared in Kenya. (2mks)

6. State three properties of colostrum that make it suitable for feeding young animals. (1½ mks)

7. Give four desirable characteristics of a cow.

(2mks)

8. Name four farm implements taken to obtain power from the power take off shaft. (PTO) of a tractor.

(2mks)

9. State three reasons for castrating a billy goat.

(1 ½ mks)

10. Identify the following breeds of livestock.

(2mks)

- (i) A pig breed with dished face, erect ears and white in colour _____
- (ii) A beef breed cream white in colour , usually very heavy with males weighing upto 1200kg. _____
- (iii) A white breed of goat usually with long hair. _____
- (iv) A wool sheep with long curly wool usually cover its face. _____

11. State desirable qualities of whole milk.

(2mks)

12. Differentiate the following terms as used in livestock management;

- (i) Out crossing and crossbreeding

(1mk)

(ii) Artificial insemination and embryo transplant.

(1mk)

(iii) Steaming up and flushing in sheep.

(1mk)

13. State the parts of a mouldboard plough.

(2mks)

(i) Shear

(ii) Landside

(iii) Depthwheel

(iv) Coulter

14. Give the four main advantages of maintaining farm machines in proper working order.

(2mks)

15. The following are some livestock diseases, anthrax, trypanosomiasis, fascioliasis, gumboro, scours, newscattle, anaplasmosis, coccidiosis, marek and brucellosis.

(2mks)

(a) Classify the diseases under.

(i) Viral diseases

(ii) Protozoan diseases

(iii) Zoonotic

16. Give one main reason for withering lucerne (medicago sativa) before feeding to livestock

(1/2 mk)

17. State any two benefits of deworming pigs.

(1mk)

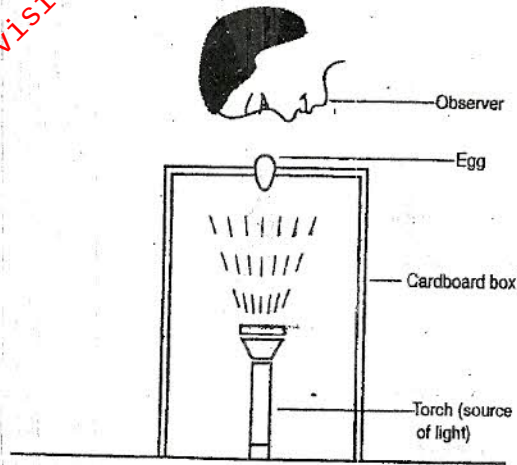
18. Name the hormone that influences milk synthesis and let down in lactating cattle. (1/2mk)

19. State the part of digestive system of a rabbit that enables it to digest vegetative feed. (1/2

SECTION B (20MKS)

Answer all questions in this section in the spaces provided.

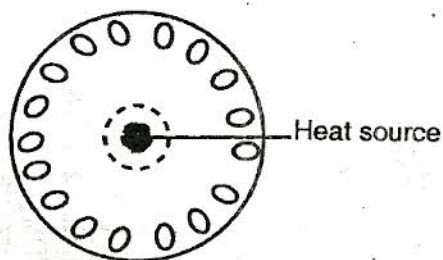
20. The diagram below illustrates a common practice in poultry farm.



- (a) Name the practice illustrated above (1/2mk)
 (b) List any four abnormalities that can be detected in the practice (2mks)

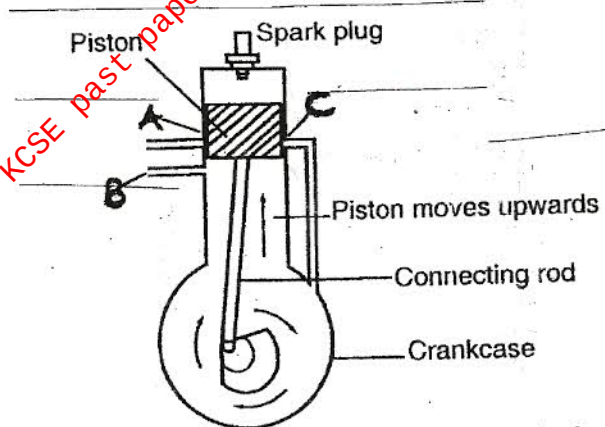
- (c) Mention any two instances during incubation that the above practice is done. (2mks)

- (d) The diagram below shows chicks in a brooder state any unused behaviour and how it can be corrected.



(e) how can a dirty egg be cleaned. _____ (1/2 mk)

21. The diagram below shows a section of an engine used to provide power in the farm.



(a) Name the parts labeled A,B,C _____ (1 ½ mks)

A _____

B _____

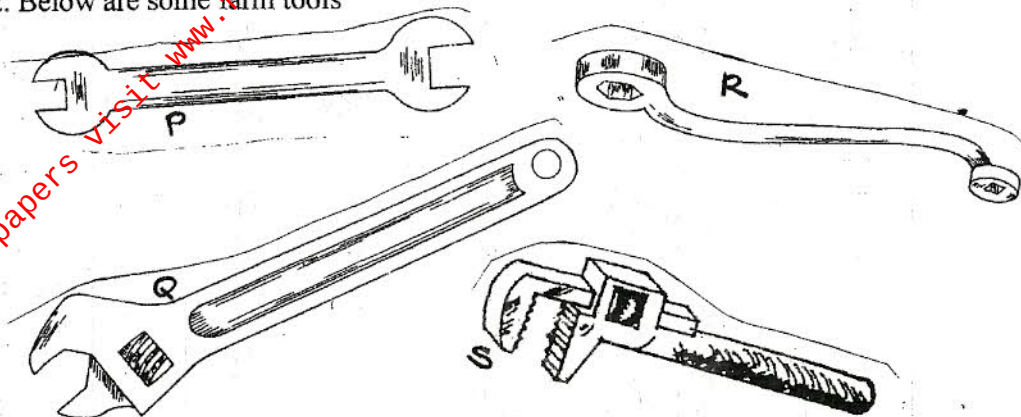
C _____

(b) Identify the stroke shown above. _____ (1mk)

(c) Indicate on the diagram using letter X where compression of fuel mixture occurs. (1/2mk)

(d) Give two uses of lubrication oil in the engine _____ (2mks)

22. Below are some farm tools



(a) Identify the tools shown above

(2mks)

P _____

Q _____

R _____

S _____

(b) State the functional difference between tools.

(2mks)

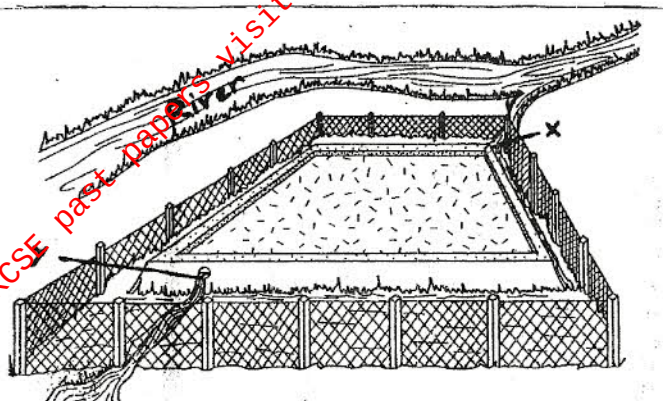
(i) P and Q

(ii) Q and S

(c) How can you maintain tool S in proper working condition.

(1mk)

23. The diagram below shows a fish pond.



(a) Name the parts marked (1mk)
X _____

Y _____

(b) State the use of each part above (1mk)
X _____

Y _____

(c) List four main considerations made when siting the above fish pond. (2mks)

- _____
- _____
- _____
- _____

(d) State any one precaution taken in construction of both X and Y to prevent entry of strange fish. (1mk)

SECTION C. (40MKS)
Answer any two questions.

24. (a) State and explain five roles of livestock farming in economic development of Kenya. (10mks)

(b) Briefly explain the functions of workers bees in a bee colony. (5mks)

(c) Explain the procedure of harvesting honey. (5mks)

25. (a) Describe the management of piglets from birth to weaning. (12mks)

(b) Explain the characteristics of a good layer.

(8mks)

26. (a) Explain the operation of a four stroke cycle engine of a tractor.

(15mks)

(b) Explain the functions of the differential in tractor movement.

(5mks)