

KIAMBU INTERZONAL

KENYA CERTIFICATE OF SECONDARY EDUCATION

443/2

AGRICULTURE

PAPER 2

JULY/AUGUST-2009

TIME: 2 HOURS

SECTION A: (30 MARKS)

Answer all the questions)

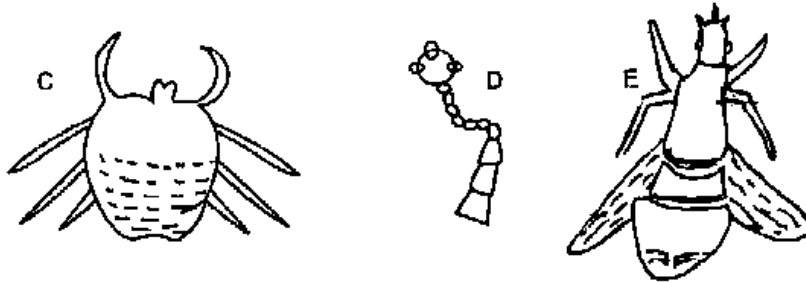
1. Name the most appropriate hand tool used to carry out the following farm operations.
 - (i) smothering curved surfaces of wood. (1 ½ marks)
 - (ii) Marking lines which are parallel to the edge of a stick. (1 ½ marks)
 - (iii) Making threads on metallic pipes. (½ marks)
2. Name the equipment used to make bees less aggressive during honey harvesting. (½ mark)
3. (a) Name the cross between dorsed horn as black head Persian in sheep breeding. (½ mark)
(b) Name **two** additives used to improve the palatability of hay. (1 mark)
4. State the three types of lubrication system in a tractor. (1 ½ marks)
5. State the function of the following parts in a fuel system of a tractor.
 - (i) Fuel pump
 - (ii) Carburetor
 - (iii) Fuel injector
6. (a) What is an incubator/ (1 mark)
(b) Give three conditions necessary for an artificial incubator required for hatching eggs. (1 ½ marks)
7. What are the advantages of using biogas as a source power in farm/ (1 mark)
8. State **three** maintenance practices carried out on a ridger. (1 ½ marks)
9. State **three** maintenance practices carried out on a ridger. (1 ½ marks)
10. Apart from steaming up, flushing and creep feeding, list six other routine Livestock rearing practices. (3 marks)
11. Name four breeding practices in livestock production. (2 marks)
12. State **three** factors considered when sitting a fish pond. (1 ½ marks)
13. What are the terms used in the parturition of the following livestock? (2 marks)
 - (a) Cattle
 - (b) Sheep
 - (c) Pigs
 - (d) Goats
14. State three predisposing factor causing scouring disease in calves. (1 ½ marks)
15. (a) List **two** main classes of livestock feed stuffs. (2 marks)

(b) State three factors considered when formulating pig ration (1 ½ marks)

SECTION B: (2 MARKS)

Answer all questions in this section

16. The diagram below illustrate common parasite in cattle



(i) Identify each of the parasites. (1 ½ marks)

(ii) State any **three** methods of controlling the parasite labeled E (1 ½ marks)

(iii) List any two methods of controlling the parasite labeled E. (1 ½ marks)

17. The diagram below shows the head of a chicken having symptoms of a poultry disease.

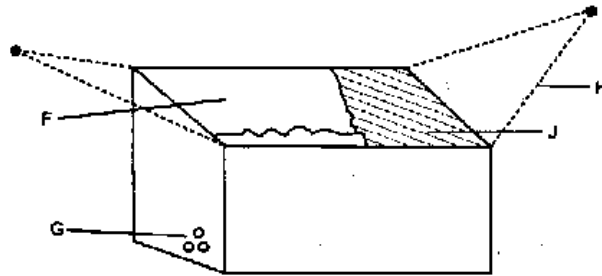


(a) Identify the disease. (1 mark)

(b) Give **two** reasons why disease may be economic importance to the farmer. (2 marks)

18. State **four** ways in which dip was may be exhausted. (2 marks)

19. Below is a diagram of equipment used in one of the agricultural enterprise.



- (a) Identify the equipment. (1 mark)
- (b) Name the part labeled:
 F
 H
 J
- (c) State reasons for;
 (i) Part G in the diagram. (1 mark)
 (ii) Structures labeled J. (1 mark)
 (iii) Keeping the equipment in a slanting position. (1 mark)
- (iv) State **two** conditions necessary for the success of the enterprise. (1 mark)

20. Below is a method of identifying livestock.



- (i) Name the type of identification method used above. (½ marks)
- (ii) Name the identification number on the diagram shown above. (1 mark)
- (iii) Using the above system draw a diagram representing livestock number 4. (1 mark)

SECTION C ; (40 MARKS)

Answer any two questions in this section.

21. (a) Name and explain several factors one would think of considering before settling farm structure. (10 marks)
- (b) Describe the factors to consider when selecting materials for building a farm structure. (7 marks)
- (c) Name **three** methods used in chemical treatment of timber. (3 marks)
22. (a) Describe the maintenance practices needed in a tractor battery.(7 marks)
- (b) Give **three** examples of tractor drawn implement which require both the three point hitch and the power takeoff of a tractor. (8 marks)
- (c) State the functions of the following;
- (i) Dis cutter
 - (ii) The land slide
 - (iii) The mould board
 - (iv) The depth wheel
 - (v) The share
23. (a) Outline the procedure of containing a bull using a bordizzo. (4 marks)
- (b) Describe the control measures of diseases in livestock for each control measure, give an example of disease controlled.