

**GEM SUB-COUNTY JOINT EVALUATION EXAMS 2016****443/2****AGRICULTURE****PAPER 2****SECTION A (30 marks)**Answer ALL questions in this section on the spaces provided.

1. State TWO distinguishing characteristics of an earlop Rabbit breed. (1 mark)
2. Name TWO dual-purpose breeds of goats. (1 mark)
3. Highlight THREE factors that lower the quality of concrete. (1½ marks)
4. Give the use of copper (II) sulphate solution in footbath of a plunge dip. (½ mark)
5. State the difference between pen-mating and flock-mating in poultry. (1 mark)
6. State four maintenance practices carried out on a Jack plane. (2 marks)
7. Name the deficiency diseases caused by lack of each of the following nutrients in the body of an Animal. (1½ mark)
  - i) Iron.....
  - ii) Iodine.....
  - iii) Zinc.....
8. Highlight FIVE characteristics of livestock roughage feed stuff. (2½ marks)
9. Mention THREE methods of selection in livestock breeding. (1½ marks)
10. Give THREE disadvantages of embryo transfer. (1½ marks)
11. Outline FIVE factors that influence the quality of honey. (2½ marks)
12. Highlight FOUR maintenance practices carried out on cooling system of a tractor. (2 marks)
13. Name the most Appropriate tool used in each of the following operations.
  - a) Scrapping and smoothing Rough wood surfaces. (½ mark)
  - b) Cutting thin sheets of metal. (½ mark)
  - c) Cutting identical marks on ears of an animal. (½ mark)
14. State the difference between Gilt and a sow. (1 mark)
15. Name any FIVE notifiable diseases of cattle. (2½ marks)
16. State FOUR factors that are considered when formulating a livestock Ration. (2 marks)
17. State FOUR effects of protein deficiency in Animal. (2 marks)
18. State the function of the following main parts of a DIP (1½ marks)
  - i) Drainage race .....
  - ii) Roof .....
  - iii) Assemble yard .....
19. Give TWO reasons why Rabbit hutches should be raised above the ground level. (1 mark)

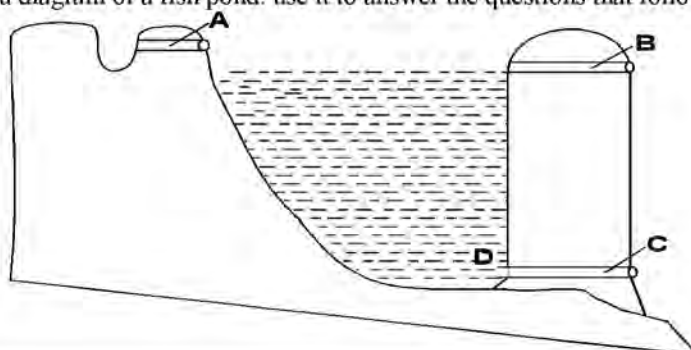
**SECTION B (20 marks)**Answer ALL questions in this section

20. A 500kg Pig Ration containing 25% crude protein was to be made from wheat bran 5% crude protein and cotton seed cake 30% crude protein. (4 marks)  
Using Karl Pearsons Square method, calculate the amount of each feed stuff needed to prepare the Ration.
21. The diagram below shows an implement used in deep tillage operation after harvesting in a farm.

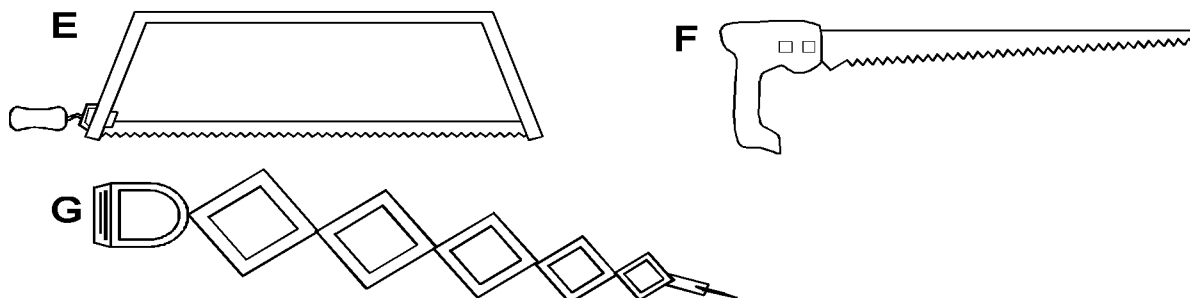


- a) Identify the implement. (1 mark)
- b) Give FOUR uses of the above farm implement. (2 marks)

22. Below is a diagram of a fish pond. use it to answer the questions that follow.



- a) i) Name the parts of the pond worked. (1½ marks)  
 ii) Explain why part D is usually deeper than the rest of the pond. (½ mark)  
 b) State FOUR maintenance practices carried out on the fish pond. (2 marks)  
 c) Give TWO reasons for the use of lime in the fish pond. (2 marks)
23. Study the diagrams of workshop tools down below.



- a) Identify the tools labelled E, F and G. (1½ marks)  
 b) Give the use for tool G. (1 mark)  
 c) State TWO reasons for using farm tools to perform various farm operations. (2 marks)
24. Describe the Life Cycle of a two host tick. (2½ marks)

### SECTION C (40 marks)

#### Answer any TWO questions from this section

25. a) Explain FIVE differences between digestion system in Ruminants and non-ruminants. (10 marks)  
 b) Describe the preparation and management of Natural Incubation. (8 marks)  
 c) What is production Ration. (2 marks)
26. a) Discuss livestock rearing practices under the following sub-headings  
 i) Identification practices. (5 marks)  
 ii) Parasite and disease control. (6 marks)  
 iii) Management of source during parturition / farrowing. (6 marks)  
 b) Define the following terms used in livestock diseases.  
 i) Zoonotic diseases. (1 mark)  
 ii) Incubation (1 mark)  
 iii) Recovery (1 mark)
27. a) Describe FIVE sources of Farm power. (10 marks)  
 b) State FIVE methods that can be used to deworm cattle. (5 marks)  
 c) Outline FIVE reasons that can make bees swarm away from a Hive. (5 marks)