

INTERNAL ASSESSMENT EXAMINATIONS

Uganda Certificate Of Education Principles and practices of agriculture Paper

2 HOURS 30 MINUTES

Instructions

- Answer all questions in part A and four (4) questions from part B including at least one question from each section1.

Part A (20 minutes)

Choose the correct alternative

- (i) Stunt growth in plants could be due to :-
 - A. Too much supply of nitrogen
 - B. Availability of phosphorus
 - C. Lack of nitrogen
 - D. Application of manures
- (ii) Which one of the following is a sign of a poor layer in poultry
 - A. The distance between the pubic bones is large
 - B. The distance between the pubic bones is small
 - C. The vent is oval, enlarged and moist
 - D. the abdomen is soft and pliable
- (iii) In the operation of a diesel engine, fuel and air meet in the:-
 - A. cylinder
 - B. carbulator
 - C. fuel tank
 - D. air cleaner
- (iv) Which one of the following is not fixed cost in production.
 - A rent on land
 - Salary for farm manager
 - Interest on bank loan
 - Payment of casual labour

Write answers in spaces provided.

2. Outline any four (4) importance of pruning crops. **(marks)**
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3. Describe any five (5) maintenance practices carried out on a radiator.(**5 marks**)
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4. Outline any four (4) principles governing cooperatives. **(4 mrks)**
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5. Describe any five (5) effects of parasites in the livestock. **(5 mrks)**

PART B - (80 MARKS)

Section (i) mechanization on farm management

- 6 (a) Describe the importance of farm structures. **(1 mrk)**
 (b) Explain the factors that influence the choice of building materials . (9mrks)
- 7(a) outline any four types of records kept on a farm. **(4 mrks)**
 (b) Describe the importance of keeping records on a farm **(7 mrks)**
 © The following is the information about Mr. Kyoma;s farm business in the year 2016. At the beginning of the year, his farm value stood at 2m. During the course of the year, the following transactions were carried out.
- | | |
|---------------------------|------------|
| Bought 3 heifers @ | 500,000= |
| Bought 500 chicks @ | 2,000= |
| Bought fertilizers at | 800,000= |
| Bought planting materials | 200,000= |
| Labour | 500,000= |
| Sold 200 ltrs of milk @ | 800= |
| Sold 400 trays of eggs @ | 8,000= |
| Paid rent on land | 100,000= |
| Sold 500 off layers @ | 7,000= |
| Sold crop products | 1,000,000= |
- At the end of the year his farm value stood at 2.3 m
 using the information above prepare a profit and loss account for Mr. Kyoma;s farm business. **(9mrks)**

8. (a) Describe the working of a 4-stroke cycle petrol engine **(6 mrks)**

(b) Differentiate between a 4 stroke cycle engine and a 2-stroke cycle engine.

(6 mrks)

(a) How can a farmer prepare a tractor for a day's work?

(8 mrks)

9. (a) Describe the methods of applying fertilizers on the farm **(7 mrks)**

(b) in the manufacture of a complete fertilizer the nutrients are mixed in a ratio of 15:10:5. If 300kg of the fertilizer is to be manufactured determine how much of each of the nutrient is required. **(4 mrks)**

(c) Explain the factors that influence crop response to fertilizer application (9mrks)

10.(a) Describe how to prepare a good nursery bed for raising seedlings.

(10 mrks)

(b) describe the practices carried out on a nursery.

(10 mrks)

11. (a) Outline the importance of the following practices.

(i) Drying of crop products

(6 mrks)

(ii) Processing of crop products

(5 mrks)

(b) Explain the factors that may lower production in crops.

(9 mrks)

Section iii – animal production

12. (a) Describe the procedure for milking in dairy animals.

(b) Outline the conditions that encourage milk let down.

(c) what measures can be taken in order to reduce clean milk?

13. (a) Describe how you can carry out the following management practices during calf rearing.

i) open castration

(8 mrks)

ii) Hot iron dehorning

(4 mrks)

(b) give the importance of carrying out each of the management practices in (a) above. **(8 mrks)**

14. (a) Describe the lifecycle of a liver fluke.

(8mrks)

(b) Outline the signs of worm infestation in livestock

(7 mrks)

(c) Describe the measure to be carried out to control liver fluke on the farm.

(5 mrks)