

Name.....Stream.....

**UGANDA CERTIFICATE OF EDUCATION**  
**AGRICULTURE P527/1**  
**TIME: 2 ½ HOURS**

**INSTRUCTIONS**

Answer all questions in part A and any four from part B

1. (a) Most farmers in Uganda prefer keeping indigenous cattle because;
  - A. They are resistant to diseases
  - B. They are highly productive
  - C. They are docile and easy to handle
  - D. They are cheap to maintain and buy.
  
- (b) On a balance sheet, prepaid expenses are considered to be;
  - A. Asset
  - B. Liability
  - C. Fixed cost
  - D. Income carried forward
  
- (c) Which one of the following factors is not critical to soil formation?
  - A. Time allowed for the process
  - B. Soil Catena
  - C. Soil micro organism activities
  - D. Nature of parent rock
  
- (d) A butter fly valve a carburetor is important for;
  - A. mixing fuel and air
  - B. Controlling the movement of values
  - C. Controlling the amount of fuel in the carburetor
  - D. Allowing fuel air mixture into the cylinders
  
2. (a) Give four reasons for grafting fruit plants. (2mks)  
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(b) How are vegetative parts of crops suitable for propagation? (3mks)

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3. (a) Out line four causes of Low meat production from beef animals. (2mks)

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(b) What factors make meat unfit for human consumption. (3mks)

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4. Mention any three importance of processing Agricultural products. (3mks)

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5. The drawing below shows some parts of an internal combustion engine. Study it and answer the questions.

(a) Name the parts labeled (2mks)

a.....  
b.....  
c.....

- d.....
- (b) (i) Basing on the parts observed which type of fuel does the above use and why  
 Fuel .....(1 ½ mks)  
 Reasons .....  
 .....(1mk)
- (ii) Give three advantages of using the above type of engine on a farm. (1 ½ mks)  
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**PART B**

**Answer any four questions by atleast one from each SECTION**

**SECTION I**

**CROP SCIENCE**

6. (a) Explain the causes of low soil fertility. (12mks)  
 (b) Outline the measures taken by farmers to conserve soil and water. (8mks)
7. (a) Explain the management practices carried out by coffee growers to ensure high yields. (14mks)  
 (b) What are the advantages of producing coffee as a perennial crop? (6mks)
8. (a) State the signs of diseases in crops. (6mks)  
 (b) Explain the cultural practices that farmers adopt to reduce the spread of diseases. (14mks)

**SECTION II**

**ANIMAL SCIENCE**

9. (a) Describe the lifecycle of a pork tape worm. (9mks)  
 (b) What are the signs of internal worm attack in calves? (6mks)  
 (c) Mention the measures taken against endo-parasites. (5mks)
10. (a) Describe the process of milk let down. (6mks)  
 (b) Suggest the measures taken by farmers in order to produce clean quality milk. (8mks)  
 (c) Explain the factors affecting milk yield in dairy cows. (6mks)
11. (a) What is meant by sexing of chicks as used in poultry management? (1mk)  
 (b) Explain two ways of sexing chicks. (4mks)  
 (c) (i) Describe how you would prepare to receive day old chicks. (10mks)  
 (ii) What are the major causes of mortality in chicks? (5mks)

**SECTION III**  
**MECHANIZATION AND FARM MANAGERMENTS**

12. (a) Describe the main sources of power for farm use. (12mks)  
(b) State the factors considered while selecting a power source for farm use. (8mks)

13. (a) Describe the characteristics of a good site for farm building construction. (12mks)  
(b) What are the causes of how durability of farm buildings. (8mks)

14. (a) Given the following information. Draw up a profit and loss account for crane mixed farm. (12mks)

Fertilizer purchase	130,000
Feed purchase	150,000
Balance at home	100,000
Cash at bank	600,000
Prepaid expenses	100,000
Coffee	50,000
Opening valuations	200,000
Closing valuation	100,000
Crop sales	800,000
Milk sales	400,000
Casual labour	200,000

- (b) Give four reasons for poor performance of farms. (4mks)
- (c) State ways of increasing farm profits. (4mks)

**END**