

Name: Index No.

Signature:

527/1

**PRINCIPLES AND
PRACTICES OF
AGRICULTURE**

Paper 1

2½ hrs

STANDARD HIGH SCHOOL ZZANA

Uganda Certificate of Education

MID TERM ONE EXAMINATIONS 2020

Principles and Practices of Agriculture

Paper 1 (Theory)

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **Part A** and **B**.*

*Attempt **all** questions in part **A** and **four** questions from **part B** including at least a question from each section.*

*For question **1**, write the letter corresponding to the best correct alternative in the box provided.*

*For questions **2** to **5** write **all** answers in the space provided.*

FORWARD SCANNED ANSWERS TO *stahiza2020@gmail.com*

For Examiner's use only		
Part/Question	Marks	Examiner's No & signature
Part A		
Part B		
No.		
No.		
No.		
No		
Total		

Turn Over

PART: A (20 marks)

Answer all questions in this part

For questions 1, write the letter corresponding to the best answer in the box provided.

For questions 2 to 5, write all answers in the spaces provided.

1. (a) Which of the following statement is true in respect of region III of the production function?
- A. Total product is increasing at a decreasing rate
 - B. Marginal product is negative.
 - C. Average product is equal to marginal product
 - D. Profit is maximum
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- (b) A pre-emergence herbicide is one that is applied before emergence of;
- A. Flowers in weeds
 - B. Weeds
 - C. A crop
 - D. Flowers in a crop
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- (c) Which of the following occurs in a diesel engine to produce power?
- A. Fuel and air are mixed, compressed and ignited.
 - B. Fuel is compressed, mixed with air and ignited.
 - C. Air is compressed, mixed with fuel and ignited.
 - D. fuel and air are ignited and then compressed.
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- (d) Which one of the following is a target organ for the action of Luteinizing hormone?
- A. Mammary gland
 - B. Uterus
 - C. Placenta
 - D. Ovary
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2. Explain four factors that influence the temperature of the soil. (04 marks)

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3. (a) What is meant by Agricultural credit? (01 mark)

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- (b) Suggest three reasons why agricultural credit scheme has not been very successful in Uganda. (03 marks)

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4. (a) Outline three importances of water in the body of an animal. (03 marks)

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Turn Over

- (b) Give three factors influencing the amount of water intake in animals. (04 marks)

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5. Give four benefits of using wood as a building material over metal. (04 marks)

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PART B: (80 MARKS)

Answer four questions including at least one from each section.

Additional questions answered will not be marked. Write your answer in the answer booklets provided.

SECTION I

MECHANISATION AND FARM MANAGEMENT

6. (a) Describe how the level of engine oil in a tractor can be checked before a day's work. (08 marks)
- (b) Explain the functions of lubricants in an engine. (12 marks)
7. (a) State the benefits farmers obtain from forming farming organizations. (10 marks)
- (b) Explain the problems faced by farming organizations in Uganda. (10 marks)

8. (a) Outline the benefits of keeping proper records on the farm. (10 marks)
- (b) The following information was extracted from Mr. Kyeswa's farm as at 31st December 2010.

Item	Costs
Purchases of animals	103,000
Vegetable sales	20,000
Transport charges	100,000
Casual labour	150,000
Sales of beans	160,000
Farm chemicals	45,000
Purchase of fertilizers	120,000
Sales of maize	100,000
Egg sales	350,000
Other receipts	18,000
Salary	253,000
Sold a bull	100,000
Repair of a tractor	200,000
Sales of milk	800,000
Purchase of seeds	20,000

Draw up a profit and loss account for his farm. (10 marks)

SECTION II CROP PRODUCTION

9. (a) Give reasons why weeds are a problem in Agriculture. (08 marks)
- (b) Explain the factors that affect herbicide selectivity. (12 marks)
10. (a) Outline the importance of organic matter in the soil. (08 marks)
- (b) Explain the factors that affect the level of organic matter in the soil. (12 marks)
11. (a) Outline the characteristics of a good agro forestry tree species. (08 marks)
- (b) Why agro forestry is highly recommended to farmers. (12 marks)

Turn Over

SECTION III
ANIMAL PRODUCTION

12. (a) Describe the procedure of slaughtering an animal for beef production. (08 marks)
- (b) Explain the factors that make meat unfit for human consumption. (12 marks)
13. (a) Outline the measures that a farmer should take to ensure the production of good quality eggs. (10 marks)
- (b) Explain the factors considered when culling poultry birds. (10 marks)
14. (a) Outline the signs of infertility in farm animals. (08 marks)
- (b) Give the advantages and the disadvantages of the following methods of breeding.
- (i) Cross breeding (06 marks)
- (ii) in-breeding (06 marks)

END