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Index No./.....Signature:

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*Principles &
practices of
agriculture
(Theory)*

Paper 1

JAN/FEB 2021

2 hours 30minutes



KAMSSA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

Instructions to candidates

- *Answer all the questions in Part A and four questions from Part B including at least one question from each section.*

FOR EXAMINER'S USE ONLY

Part/Question	Marks	Examiner's No. & Sign
Part A		
Part B No.		
No.		
No.		
No.		
No.		

PART A: (20 MARKS)

Answer all the questions in this part. For Question 1. Write the letter corresponding to the best answer in the box provided. For Question 2 to 5, write all answers in the spaces provided.

1. (a) Which of the following is a notifiable disease?
A. Scours B. Coccidiosis
C. Foot and mouth D. East Coast Fever

(b) Stocking rate refers to the number of
A. paddocks for grazing animals
B. animals supported by a pasture
C. breeding animals on a farm
D. animals kept per unit area

(c) A trading account is a type of farm record which shows
A. all transactions carried out throughout the year
B. daily entries of purchases and sales
C. performance of each enterprise on the farm
D. financial position of the farm on a particular date.

(d) Which one of the following is the firing order in a four - cylinder engine with the cylinders numbered in the order of 1, 2, 3 and 4?
A. 1, 4, 3, 2 B. 1, 3, 4, 2
C. 1, 2, 4, 3 D. 1, 4, 2, 3 (02 marks)

2. (a) State three advantages of raising a coffee crop from cuttings. (03 marks)
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(b) Give two reasons why a coffee crop should be pruned (02 marks)
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3. Explain four factors which influence the choice of the irrigation method to use in an area.
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4. Give five functions of farmers' organisations. (05 marks)
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5. State four functions of the electrical system of a tractor. (04 marks)
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PART A: (20 MARKS)

Answer all the questions in this part. For Question 1. Write the letter corresponding to the best answer in the box provided. For Question 2 to 5, write all answers in the spaces provided.

PART II: (80 MARKS)

Answer **Four** questions including at least **one** from each section. Write all your answers in the answer booklet provided

**SECTION I
MECHANISATION AND FARM MANAGEMENT**

6. (a) The table below shows changes in the price and the quantity of beans bought from a grocery between March and April 2001.

Price of beans (shs/kg)	Quantity of beans bought (kg)
600	100
550	150
500	200
450	250
400	300
350	350
300	400
250	450
200	500

- (i) Using the information on the table, draw a graph to show the relationship between the price of beans and the quantity bought. (06 marks)
- (ii) Describe how the quantity of beans bought, varied with price. (02 marks)
- (b) Explain the factors that affect the
- (i) price of a commodity (06 marks)
- (ii) demand for a commodity (06 marks)
7. (a) What are the advantages of a 4-stroke engine? (04 marks)
- (b) Describe how a 4-stroke cycle petrol engine works. (16 marks)
8. (a) What is agricultural credit? (02 marks)
- (b) What is the benefit of acquiring agricultural credit to farmers? (06 marks)
- (c) Give reasons why farmers sometimes fail to repay credits. (12 marks)

**SECTION II
CROP PRODUCTION**

9. Describe the field practices that lead to increased crop yields. (20 marks)
10. (a) Describe the problems of weeds in crop production. (10 marks)
- (b) What characteristics have made weeds more successful? (10 marks)
11. (a) Why is irrigation important in crop production? (05 marks)
- (b) Outline the advantages and disadvantages of overhead irrigation. (15 marks)

SECTION III
ANIMAL PRODUCTION

12. (a) What factors must a farmer consider before establishing a beef herd? (10 marks)
(b) Describe the factors that limit beef production in Uganda. (10 marks)
13. (a) Outline the advantages of rearing pigs as compared to the rearing of other types of livestock. (10 marks)
(b) What problems are associated with the rearing of pigs? (10 marks)
14. (a) What is oestrus cycle? (02 marks)
(b) Outline signs of heat in a goat. (06 marks)
(c) Describe how to manage a goat during its pregnancy. (12 marks)

END