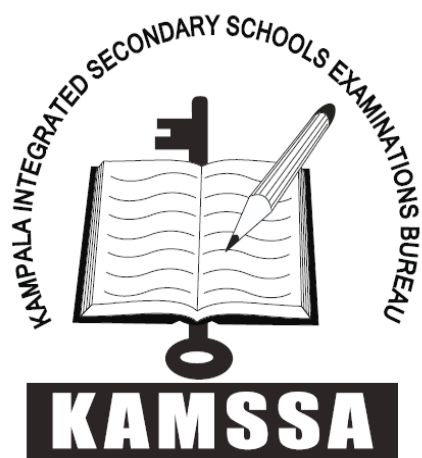


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***Principles &
practices of
agriculture
(Theory)***
Paper 1
July/Aug 2022
2 hours 30minutes



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 atleast **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 questions in this section. for question 1, write the letter corresponding to the correct answer in the box provided. For questions 2 to 5, write all the answers in the spaces provided.

1. (a) In which of the following reproductive parts of a hen is oval shape of an egg determined?

- A. Magnum
- B. Uterus
- C. Infundibulum
- D. Isthmus

- (b) Which of the following parts of a post and wire fence prevents sagging of wires?

- A. Standard post
- B. King post
- C. Droppers
- D. Strut

- (c) A hard pan in the soil profile refers to

- A. an impermeable layer below the soil surface
- B. a layer of rock below the soil surface
- C. an impermeable layer above the bed rock
- D. an impermeable layer at the soil surface

- (d) Payment for permanent labour on a farm is classified as

- A. an implicit cost
- B. a fixed cost
- C. a variable cost
- D. an overhead cost

(2 marks)

2. (a) State two signs of each of the following conditions in farm animals.

- (i) Bloat

(01 mark)

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- (ii) Mastitis

(01 mark)

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(b) Suggest three ways of controlling mastitis on dairy farms. (03 marks)

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3. Give four reasons for processing agricultural produce before sale. (04 marks)

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4. (a) State three functions of lubricants in farm machines. (03 marks)

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(b) Mention four contaminants of lubricants. (02 marks)

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5. Give four desirable characteristics that a green manure crop should have. (04 marks)

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PART B (80 MARKS)

Answer four questions from this part including at least one question from each section. Write your answers in the answer booklets provided.

SECTION I MECHANIZATION AND FARM MANAGEMENT

6. (a) Why is a crush important on a farm? **(08 marks)**
(b) Describe the features of a good calf pen. **(08 marks)**
(c) Outline the factors that reduce the effectiveness of dipping cattle. **(04marks)**
7. (a) Describe how you would prepare a tractor before a day's work. **(06 marks)**
(b) Explain the factors to consider when purchasing machinery. **(06 marks)**
(c) Give reasons why most of the farm tractors are of diesel type. **(04 marks)**
(d) Outline the advantages of using a disc plough in land preparation. **(04 marks)**
8. (a) What are the benefits of being a member of a co-operative society? **(06 marks)**
(b) Explain the principles on which co-operatives operate. **(14 marks)**

SECTION II CROP PRODUCTION

9. (a) What are the causes of seed dormancy? **(04 marks)**
(b) Explain the various methods of breaking seed dormancy. **(08 marks)**
(c) Describe an experiment you would perform to determine the viability percentage of a given seed lot. **(08 marks)**
10. (a) Give reasons for carrying out each of the following practices;
(i) Mulching **(04 marks)**
(ii) Prunning **(03 marks)**
(iii) Hardening off **(03 marks)**
(b) Explain the factors considered in planning a good crop rotation. **(06 marks)**
(c) What are the advantages of crop rotation? **(04 marks)**
11. (a) Describe how you would prepare a good quality compost manure using a pit method. **(12 marks)**
(b) What are the advantages of using compost manure? **(08 marks)**

SECTION III

ANIMAL PRODUCTION

12. (a) Describe the procedure to be followed in preparing hides and skins for sale. **(12 marks)**
(b) What factors make meat unfit for human consumption? **(08 marks)**
13. (a) Outline the signs of ill-health in poultry birds. **(06 marks)**
(b) How can disease outbreak be prevented on a poultry farm? **(08 marks)**
(c) What are the possible causes of wetness of litter in a poultry house? **(06 marks)**
14. (a) What is meant by the term Artificial insemination? **(02 marks)**
(b) Suggest ways in which artificial insemination can be made more popular among farmers. **(04 marks)**
(c) State the advantages and disadvantages of natural mating as a method of breeding. **(08 marks)**
(d) Explain the factors to consider when selecting animals for breeding purposes. **(06 marks)**

END