

527 /1
AGRICULTURE
PRINCIPLES & PRACTICES

Paper 1
June./July.2022
2½ hours



KAGADI JOINT MOCK EXAMINATIONS CONSULT

Uganda Certificate of Education

AGRICULTURE PRINCIPLES & PRACTICES

Paper 1

2 hours 30minutes

INSTRUCTIONS TO CANDIDATES:

*Answer **all** questions in part **A** and any **four** question from part **B**, choosing at least **one** question from each section.*

PART A: (20MARKS)

1. (a) Gross margin is the difference between
A. sales and expenses.
B. assets and liabilities
C. total sales and variable costs
D. fixed costs and variable costs. ☐
- (b) The stage of the liver fluke that infects the host animal is the
A. cercaria.
B. miracidium
C. adult
D. sporocyst. ☐
- (c) Which **one** of the following is not a result of lay farming?
A. Land is left idle.
B. Soil structure is improved
C. Soil erosion is accelerated.
D. Soil fertility is improved. ☐
- (d) A device which mixes air and petrol in correct proportion in the petrol engine is called.
A. An injector pump
B. A carburetor
C. A radiator
D. A fuel pump. ☐

2. (a) What is meant by the term **risk** as used in farming; (01mark)

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- (b) Outline **four** ways of minimizing risks in agriculture production. (04marks)

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3. (a) State **two** qualities of a good seed for planting. (02marks)

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- (b) Mention **four** factors that influence the spacing of a crop when planting. (02marks)

4. (a) Outline **five** causes of low breeding efficiency in farm animals. (05marks)

5. Give **five** causes of overheating in a tractor engine. (05marks)

PART B: (80MARKS)

SECTION I

MECHANIZATION AND FARM MANAGEMENT

6. (a) Explain why farmers are encouraged to adopt mechanized agriculture. (10marks)
(b) How can farmers be encouraged to mechanize their farm operations? (10marks)

7. (a) Explain the importance of fencing in farm land. (12marks)
(b) A school plans to erect a perimeter fence around its square land measuring 30 hacters. Use the following information to answer the questions that follow.
- A treated post costs shs. 2000=
- Posts to be spaced 5 metres a part.
- A roll of barbed wire measures 500 metres long and costs shs 20000=
- Perimeter fence is to have 4 stands.

Calculate the

- (i) perimeter of the school farm land in metres. (02marks)
- (ii) number of posts needed for the perimeter fence and their costs. (02marks)
- (iii) number of rolls of barbed wire needed and their costs. (02marks)
- (iv) total cost of materials needed for the fencing project. (02marks)

8. (a) Outline the various activities involved in the process of marketing agricultural goods. (12marks)
- (b) What problems do farmers face during marketing of Agricultural products? (08marks)

SECTION II CROP PRODUCTION

9. (a) Explain the factors to consider when deciding on which crop to grow. (10marks)
- (b) Explain the practices that ensure high crop yields. (10marks)
10. (a) Why is it necessary to dry a crop before storage. (06marks)
- (b) Explain ways in which farmers can reduce crop loss during storage. (14marks)
11. (a) Explain how soil sampling and testing may help in farming planning. (06marks)
- (b) Describe the procedure followed when sampling soil from the field. (14marks)

SECTION III ANIMAL PRODUCTION

12. (a) Describe the signs of ill health in farm animals. (08marks)
- (b) Explain ways of preventing an outbreak or spread of disease among farm animals. (12marks)
13. (a) (a) Explain the factors affecting the distribution of live stock in Uganda. (10marks)
- (b) What problems do live stock farmers in Uganda face? (10marks)
14. (a) How is an egg formed in a hen? (10marks)
- (b) State the conditions that encourage stress in laying birds. (05marks)
- (c) What are the characteristics of good egg? (05marks)

END