

FORM 4 TERM 1 2021

AGRICULTURE

Answer all questions in the spaces provided

1. List four implements used to carry out secondary cultivation. (2mks)
2. State one condition under which a farmer would prefer to use an ox-cart instead of a tractor-drawn trailer. (1mk)
3. State three ways of improving the labour productivity of farm labour. (3mks)
4. Give four variable costs in the production of coffee in an established field of coffee. (2mks)
5. Describe four ways by which a farmer can adjust to risks and uncertainties. (2mks)

6. Give four examples of joint products in livestock production (2mks)

7. Explain the following terms as used in agriculture economics. (2mks)

i) Production function

ii) Principle of Equi-marginal returns

8. List four types of financial books farmers should keep. (2mks)

9. Study the following information which was extracted from Mr. Mwaniki's farm records on 31 -12 – 95 and answer the question below.

| | Kshs. |
|------------------------------|---------|
| Loans payable to bank | 300,000 |
| Five milking cows | 250,000 |
| 400 layers | 80,000 |
| 20 goats | 30,000 |
| Debts payable to cooperative | 20,000 |
| Buildings and structures | 600,000 |
| Bonus payable to workers | 19,000 |
| Cattle feed in store | 10,000 |
| Animal drugs in store | 4,000 |
| Debts receivable | 18,000 |
| Breakages to repair | 30,000 |
| I cash at hand | 20,000 |
| I Cash in bank | 30,000 |
| Spray equipment | 12,000 |

Prepare a balance sheet for Mwaniki's farm using the information above (7 mks)

10. Explain four problems farmers face in marketing of agricultural produce. (4mks)

11. How will the price of mangoes in the short run be affected if the quantity of mangoes supplied in a market is increased (1mk)
12. Give three benefits a farmer would derive from being a member of a dairy co-operative society. (3mks)
13. Given that at a price of Ksh. 1000 per bag, 20 bags of maize are demanded, but when the price changes to Ksh.800 per bag, 22 bags of are demanded. Calculate the elasticity of demand. Show your working. (3mks)
14. State three problems experienced by farmers in marketing agricultural produce.(3 mks)

15. State one method of increasing ploughing depth when using a disc plough. (1mk)

16. Explain three qualities that make colostrum suitable for newly born calves.

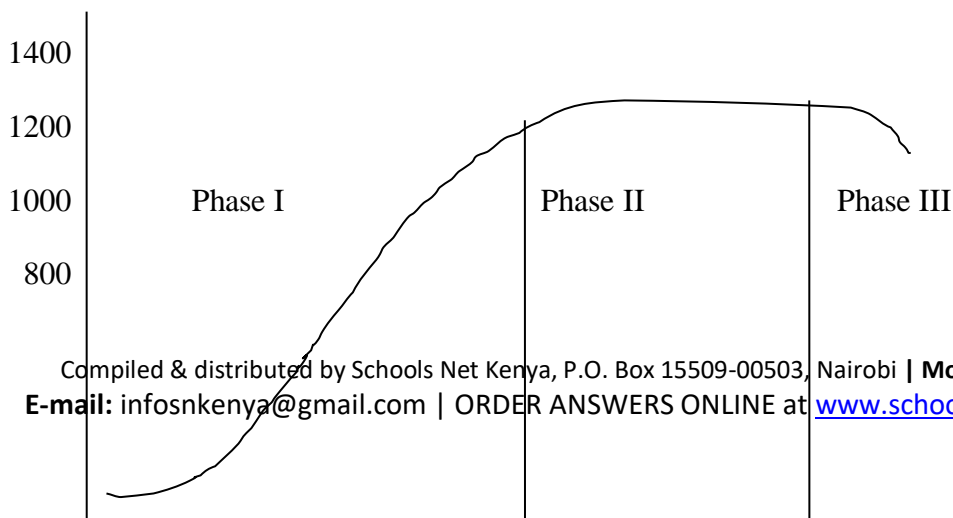
(3mks)

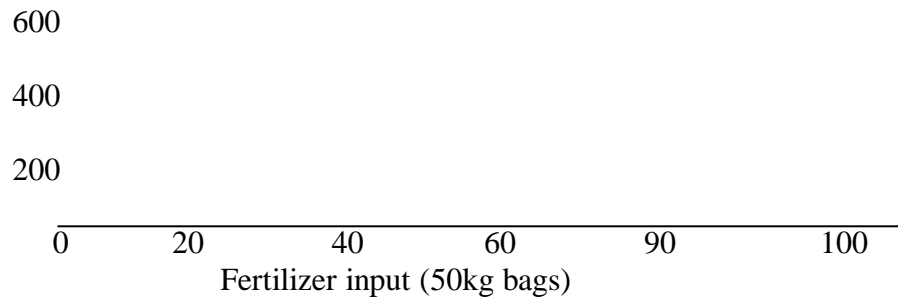
17. Name the hormone that stimulates milk secretion in dairy animals (1mk)

18. Describe three characteristics of a poor layer which should be considered during culling

(3mks)

19. Below is a graphical representation of a law in agricultural economics. Study the graph carefully and answer the questions that follow.





- a) Explain what the law illustrated by the graph states (2mk)
- b) Explain how each additional unit of fertilizer input relates to the total output of maize in **Phases II and III.** (2 mks)

Phase II

Phase III

- c) State the importance of the law identified in (a) above to the maize farmer (1mk)