

2023 MOCK 2 GENERAL AGRICULTURE 2

PAPER 2

2 hours

ESSAY

[80 marks]

*Answer **five** questions in all; **one** question from **each** part.*

Credit will be given to clarity of expression and orderly presentation of material.

All questions carry equal marks

PART I

*Answer **one** question **only** from this part.*

1. (a) Mention **four** factors that influence sustainable agricultural production? [4 marks]
(b) Outline **three** routine maintenance practices that are carried out on a tractor. [6 marks]
(c) Explain **three** factors that could accelerate agricultural development in Ghana. [6 marks]
2. (a) Enumerate **five** factors that influence the choice of farming systems in Ghana. [5 marks]
(b) (i) Distinguish between *trailed agricultural implements* and *fully mounted agricultural Implements*.
(ii) Give **one** example **each** of
(α) trailed agricultural implements;
(β) fully mounted agricultural implements. [5 marks]
(c) Outline **three** activities undertaken in **each** of the following agricultural occupations:
(i) agricultural economics;
(ii) agricultural research. [6 marks]

PART II

*Answer **one** question **only** from this part.*

3. (a) Name **four** plant micronutrients. [4 marks]
(b) Outline the process of soil formation. [6 marks]
(c) Explain **three** ways in which soil water is important to crops. [6 marks]
4. (a) List **five** factors that determine the fertility of soil. [5 marks]
(b) Mention **three** farming practices which reduces the population of soil living organisms. [5 marks]
(c) Describe **four** agronomic practices that could be used to control loss on a farm. [8 marks]

PART III

Answer one question only from this part.

5. (a) (i) List **four** types of agrochemicals used in crop production. [8 marks]
(ii) State **one** use of **each** type of agrochemicals you have listed in (a) (i) above. [8 marks]
(b) Discuss **four** problems associated with cassava production in West Africa. [8 marks]
6. (a) Distinguish between a bed and a border in ornamental horticulture. [2 marks]
(b) Outline **four** methods of cultural pest control in crop production. [8 marks]
(c) Explain how **three** characteristics of weeds make them difficult to control on the farm. [6 marks]

PART IV

Answer one question only from this part.

7. (a) Mention **three** fish preservation methods. [3 marks]
(b) State **two** differences between the digestive systems of a goat and a domestic fowl. [4 marks]
(c) Enumerate **three** ways of minimizing tapeworm infestation in farm animals. [3 marks]
(d) Describe **three** methods that could be used to improve local breeds of farm animals in Ghana. [6 marks]
8. (a) Mention **four** characteristics of a good breeding sow. [4 marks]
(b) State **two** benefits which could be derived from **each** of the following management practices in animal production:
(i) dehorning;
(ii) creep feeding;
(iii) culling. [6 marks]
(c) Give **three** reasons for providing suitable housing for small ruminant livestock. [6 marks]

PART V

Answer one question only from this part.

9. (a) List **four** records that are kept on a farm. [4 marks]
(b) (i) Define the term *value chain* as used in agriculture. [6 marks]
(ii) State **two** benefits of value chain development in agriculture production. [6 marks]
(c) Discuss **three** factors to be considered in the establishment of an agribusiness. [6 marks]
10. (a) List **three** characteristics of agricultural land. [3 marks]
(b) State **five** objectives of agricultural extension education. [5 marks]
(c) Describe **four** ways by which modern farming practices could reach farmers. [8 marks]

END OF ESSAY TEST