

2023 SUPER MOCK GENERAL AGRICULTURE 2

PAPER 2

ESSAY

[80 marks]

2 hours

*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) Explain five ways in which agriculture and industry are inter-related. [10mark]
- (b) List three contributions of each of the following institutions to the development of agriculture
- (i) Research institution
 - (ii) Meteorological service [6marks]
2. (a) (i) What is irrigation? [4marks]
(ii) State two sources of irrigation water. [2marks]
(iii) Give two disadvantages of basin irrigation. [2marks]
- (b) State one function of each of the following parts of the internal combustion engine
- (i) cylinder
 - (ii) piston
 - (iii) crankshaft
 - (iv) flywheel [4marks]
- (c) Enumerate four advantages of communal land tenure system. [4marks]

PART II

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

3. (a) Describe how each of the following rocks are formed:
- (i) Igneous rocks
 - (ii) Sedimentary rocks [8marks]
- (b) State four ways in which a good seedbed enhances germination and seedling establishment. [4marks]
- (c) Describe how soil erosion is caused by any two activities of man. [4marks]

4. (a) What is vegetative propagation? [2marks]
(b) Give two examples each of plants propagated by the following plant parts
(i) stem
(ii) tuber
(iii) sucker [6marks]
(c) Give four reasons why ornamental plants are important. [4marks]
(d) List two functions of each of the following nutrients in plant nutrition:
(i) nitrogen
(ii) iron [4marks]

PART III

Answer one question only from this part.

5. (a) Explain the importance of the following practices in crop production:
(i) Earthing-up
(ii) Topping
(iii) Thinning out [8 marks]
(b) Suggest four measures that a farmer could adopt to prolong the shelf life of stored grains. [4marks]
(c) Describe two cultural methods of controlling pests of crop plants. [4marks]
6. (a) Explain four factors to consider in formulating animal nutrition. [8marks]
(b) List three signs of ill-health in farm animals. [4marks]
(c) State three functions of protein in animal nutrition. [4marks]

PART IV

Answer one question only from this part.

7. (a) Distinguish between incubation and brooding in poultry production. [4marks]
(b) List six factors that could be responsible for high mortality during brooding in poultry. [6marks]
(c) Explain three qualities that should be considered in selecting a breeding stock for a livestock farm. [6marks]
8. (a) Outline three management practices involved in fish farming. [6marks]
(b) State six advantages of artificial insemination in animal production. [6marks]
(c) State four effects of malnutrition in animal nutrition. [4 marks]