PAPER 2

ESSAY

[80 marks]

Answer **five** *questions in all,* **one** *question from* **each** *section.*

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

All questions carry equal marks.

SECTION A

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

1. (*a*) Give **three** advantages of the use of mechanical power on the farm. [3 m

(*b*) Give **three** uses of **each** of the following sources of farm power:
(i) wind;
(ii) solar. [6 m

(*c*) Describe what happens in an internal combustion engine during the compression stroke. [3 m

(*d*) Explain **each** of the following land tenure systems:
(i) freehold;
(ii) leasehold. [4 m

2. (*a*) Give **four** reasons why land survey is important in agriculture. [8 m

(*b*) (i) What is *wildlife conservation*? [2 m
(ii) State **three** problems facing wildlife conservation in West Africa. [3 m

(*c*) Explain the term *afforestation*. [3 m

SECTION B

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

3. (*a*) Discuss **four** agronomic measures used for soil conservation. [8 m

(*b*) Define **each** of the following soil properties:
(i) texture;
(ii) consistency. [4 m

(*c*) Give **two** examples **each** of the following rocks:
(i) igneous;
(ii) sedimentary. [4 m

4. (*a*) Mention **five** factors that could lead to loss of soil fertility. [5 m

(*b*) List **five** factors of soil formation. [5 m

(*c*) In **three** ways, state the importance of soil microbes. [3

(*d*) Give **three** examples of soil micro-nutrients. [3

SECTION C

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

5. (*a*) Explain **each** of the following terms as used in plant improvement:
(i) introduction;
(ii) hybridization.

(*b*) Give **two** reasons **each** for carrying out **each** of the following cultural pr
(i) staking;
(ii) pricking-out;
(iii) pruning.

(*c*) Give **three** reasons why some seeds are treated with pesticides before so in the field.

(*d*) Name **three** fungal diseases of tomato.

6. (*a*) (i) What is a *non-pathogenic disease* of crops?
(ii) Mention **four** causes of **non-pathogenic** diseases in crops.

(*b*) State **four** benefits of trimming in **horticulture**.

(*c*) Distinguish between the terms *supplying* and *thinning* as used in horticult

(*d*) (i) What is *seed dormancy*?
(ii) Mention **two** ways of breaking seed dormancy.

SECTION **D**

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

7. (*a*) Mention **four** ways of controlling liver flukes in ruminants.

(*b*) Give **two** examples **each** of the following types of parasites of farm anima
(i) ectoparasites;
(ii) endoparasites.

(*c*) Discuss *trypanosomiasis disease* under the following headings:
(i) causative organism;
(ii) mode of transmission;
(ii) three symptoms;
(iv) three control measures.

8. (a) Explain the following terms as used in pig husbandry:
   (i) farrowing;
   (ii) hog;
   (iii) fatteners;
   (iv) in-sow.

[8 ma

(b) (i) Give **three** desirable features of a hutch [3 ma
   (ii) Name **three** breeds of rabbit. [3 ma

(c) Name **two** breeds of diary cattle. [2 ma

SECTION E

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

9. (a) Mention **two** ways in which **each** of the following marketing functions is important:
   (i) processing;
   (ii) distribution;
   (iii) assembling.

[6 m

(b) State **four** characteristics of an effective extension system. [4 m

(c) (i) State **three** advantages of the group method of agricultural extension teaching. [3 m
   (ii) Give **three** examples of the group method of agricultural extension teaching. [3 m

10. (a) Explain **each** of the following activities that are performed in agribusiness:
   (i) budgeting;
   (ii) coordination;
   (iii) planning.

[6

(b) At a price of Gh¢ 10 per tuber, consumers bought 200 tuber of yam per week. At an increased price of Gh¢ 15 per tuber, demand decreased to 150 tubers per week.

Determine the:
   (i) change in quantity of yam demanded per week; [3
   (ii) change in price per tuber of yam; [3
   (iii) value of price elasticity and the type of elasticity. [4

END OF ESSAY TEST