CROP HUSBANDRY AND HORTICULTURE

SCHEME OF EXAMINATION

There will be three papers, Papers 1, 2 and 3 all of which must be taken. Papers 1 and 2 will be a composite paper to be taken at one sitting.

PAPER 1: Will consist of fifty multiple choice objective questions all of which must be answered within 1 hour for 50 marks.

PAPER 2: Will consist of six essay-type questions. Candidates will be required to answer four questions within 2 hours for 80 marks.

PAPER 3: Will be a practical paper for school candidates or alternative to practical test paper for private candidates. Each version will consist of four questions all of which must be answered within 2 hours for 60 marks.

SAMPLE QUESTIONS

PAPER 1

(OBJECTIVE TEST)

1. Which of the following crops is propagated by seed?
   A. Banana
   B. Cocoyam
   C. Onion
   D. Sweet potato

2. The practice of exposing seedlings to short periods of drought before transplanting is known as
   A. hardening off.
   B. pricking out.
   C. stratification.
   D. vernalization.

3. A major cause of post-harvest losses in crop production is
   A. low soil fertility.
   B. low yielding crop varieties.
   C. inadequate irrigation facilities.
   D. inadequate storage facilities.
4. The sides of a bed for vegetable production are firmed to ensure that
   A. organic matter remains in the soil.
   B. roots of crops would be well-anchored.
   C. movement on the farm would be easy.
   D. the bed would not be washed down easily by rain.

5. *Dysdercus superstitions* is a serious pest of
   A. banana.
   B. cotton.
   C. pawpaw.
   D. pineapple.

6. The recommended spacing for a tree crop is 10m x 5m. Determine the number of seedlings required to plant one hectare of land.
   A. 5
   B. 50
   C. 200
   D. 666

7. *Spiking* is done in the maintenance of lawns in order to
   A. remove weeds from the lawn.
   B. control pests on the lawn.
   C. improve aeration in the soil.
   D. supply water to the soil.

8. Which of the following ornamental plants can be used for interior decoration?
   I. *Caladium*
   II. *Croton*
   III. *Sansevieria*
   A. I and II only
   B. I and III only
   C. II and III only
   D. I, II and III

9. An example of invasive alien plant species is
   A. *Chromolaena odorata.*
   B. *Cyperus rotundus.*
   C. *Striga hermonthica.*
   D. *Spigelia anthelma.*

10. Which of the following agents provide services in crop production?
    I. Farm Managers
    II. Extension Officers
    III. Researchers
A. I and II only
B. I and III only
C. II and III only
D. I, II and III

PAPER 2

(ESSAY)

1. (a) State four characteristics of cocoa plant. [4 marks]
   (b) List four cultural practices carried out on a cocoa plantation. [4 marks]
   (c) Discuss the cultivation of pepper under each of the following headings:
       (i) climatic requirement;
       (ii) land preparation;
       (iii) weed control;
       (iv) pest control. [12 marks]

2. (a) Name three invasive alien plant species in your country. [3 marks]
   (b) Explain each of the following terms as used in crop production:
       (i) hardening off;
       (ii) composting;
       (iii) topping. [9 marks]
   (c) Give two reasons for carrying out each of the following practices:
       (i) topping;
       (ii) hardening off. [8 marks]
PAPER 3

(PRACTICAL)

List of specimens

Specimen A - Tomato fruit
Specimen B - Gargen egg fruit
Specimen C - Coconut fruit

1. (a) Identify each of specimens A, B, and C. [3 marks]

(b) Give the scientific name of the plants from which each of specimens A, B and C was obtained. [3 marks]

(c) Draw and label specimen A. [5 marks]

(d) State four uses of specimen C. [4 marks]

PAPER 3

(TEST OF PRACTICAL WORK)

1. Figures 1 and 2 are illustrations of vegetables. Study them carefully and answer the questions that follow.
(a) Identify by the scientific name, the plant from which each of the vegetables illustrated could be obtained. [1 mark]

(b) What is the family name of the vegetable illustrated in figure 2? [3 marks]

(c) Name one pest and one disease that could affect the:
   (i) vegetable illustrated in figure 1;
   (ii) plant from which the vegetable in figure 1 could be obtained. [4 marks]

(d) State one control measure each, for pests and diseases named in (i). [2 marks]

(e) State two uses of the vegetable illustrated in figure 2. [4 marks]

(f) State two methods of preservation for each of the vegetables illustrated.

2. A farmer observed black sigatoka fungus attack on his plantain farm.

   (a) State two effects of the fungal attack on the plants [2 marks]

   (b) Suggest three possible ways to control the fungus. [3 marks]