

3.15 AGRICULTURE (443) More papers at [www.elimucentre.com](http://www.elimucentre.com)

3.15.1 Agriculture Paper 1 (443/1)

SECTION A ( 30 marks)

Answer *all* the questions in this section in the spaces provided.

- 1 State **four** reasons for intercropping. (2 marks)
- 2 Give **four** advantages of intensive farming. (2 marks)
- 3 Give **four** reasons why land should be prepared early in readiness for planting. (2 marks)
- 4 State **four** reasons for deep ploughing during land preparation. (2 marks)
- 5 State **two** conditions that must exist for a market to be purely competitive. (1 mark)
- 6 Distinguish between grading and standardization in agricultural marketing. (2 marks)
- 7 State **four** benefits of agroforestry to a maize crop. (2 marks)
- 8 Distinguish between intensive hedgerow and border planting forms of agroforestry. (2 marks)
- 9 What is meant by each of the following terms: (3 marks)
  - (a) mixed cropping
  - (b) monocropping
  - (c) intercropping.
- 10 State **four** advantages of timely planting. (2 marks)
- 11 State **four** advantages of row planting in crop production. (2 marks)
- 12 State **four** reasons why a nursery is important in crop production. (2 mark)
- 13 Distinguish between monopoly and monopsony. (2 marks)
- 14 Name the plant part used for vegetative propagation of each of the following plants:
  - (a) cassava (1/2 mark)
  - (b) sisal (1/2 mark)
  - (c) pyrethrum (1/2 mark)
  - (d) sweet potatoes. (1/2 mark)
- 15 State **four** characteristics of a good vegetable seedling. (2 marks)



**SECTION** (20 marks)

Answer **all** the questions in this section in the spaces provided.

**16** The photograph below illustrates a method of irrigation.



- (a) Identify the method of irrigation illustrated above. (1 mark)
- (b) State **two** maintenance practices that are carried out on the equipment used in the method illustrated above. (2 marks)
- (c) Give **one** advantage drip irrigation has over the method of irrigation illustrated above in crop disease control. (1 mark)

**17** The table below shows a format of a farm record.

Date	Disease Symptom	Livestock affected	Drugs used	Cost of treatment	Remarks

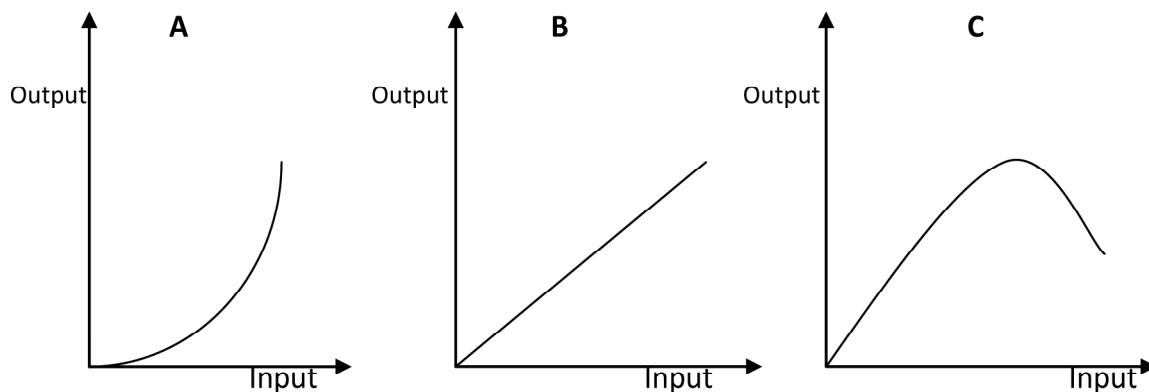
- (a) Name the farm record illustrated above. (1 mark)
- (b) Give **two** uses of the farm record shown above. (2 marks)

**18** The table below represents an account in a financial book of a poultry farmer.

POULTRY							
DR				CR			
Date	Particulars	Folio	Amount	Date	Particulars	Folio	Amount

- (a) Identify the financial book. (1 mark)
- (b) On 10th January 2011, the poultry farmer bought 5 bags of layers mash worth Ksh. 10 000/- and sold 100 trays of eggs for Ksh. 20 000/- on 10 January 2011. Enter these transactions in the account above. (3 marks)

**19** The following illustrations show different production function curves in agricultural economics. Study them and answer the questions that follow.



(a) Identify the production function curves labelled **A** and **B**. (2 marks)

**A** .....

**B** .....

(b) What does the law derived from the production function labelled **C** state? (1 mark)

(c) (i) Which **one** of the three production function curves is rare in Agriculture? (1 mark)

(ii) Give a reason for your answer in (c)(i) above. (1 mark)

**20** The following is a list of plant nutrients; Copper, Calcium, Nitrogen, Molybdenum, Zinc, Phosphorus, Carbon, Sulphur, Iron and Magnesium.

Which of the above plant nutrients are:

(a) macro-nutrients (1 mark)

(b) micro-nutrients (1 mark)

(c) fertilizer elements (1 mark)

(d) liming elements. (1 mark)

**SECTION C (40 marks)**

*Answer any two questions from this section in the spaces provided after question 23.*

**21** (a) Explain **eight** cultural methods of soil and water conservation. (8 marks)

(b) Explain **four** ways in which:

(i) HIV/AIDS limits agricultural production (4 marks)

- (ii) government policy improves agricultural production (4 marks)
- (iii) low level of education and technology influences agriculture. (4 marks)
- 22** (a) Explain **seven** physical methods of pest control. (7 marks)
- (b) Explain **eight** factors that contribute to the competitive ability of weeds. (8 marks)
- (c) Describe the harvesting of coffee. (5 marks)
- 23** (a) Describe the preparation and handling of stem cuttings when planting napier grass. (5 marks)
- (b) Describe the production of onions under the following sub-headings:
  - (i) seedbed preparation (3 marks)
  - (ii) field management (4 marks)
  - (iii) harvesting. (3 marks)
- (c) Give **five** reasons why land consolidation should be encouraged in Kenya. (5 marks)