**3.15** **AGRICULTURE (443)**

**3.15.1  Agriculture Paper 1 (443/1)**

**SECTION A** ( 30 marks)

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

**8** Distinguish between intensive hedgerow and border planting forms of agroforestry.

(b) monocropping

**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)

(2 marks)

**9** What is meant by each of the following terms: (3 marks)

(a) mixed cropping

(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)

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| POULTRY | | | | | | | |
| DR | | | | CR | | | |
| Date | Particulars | Folio | Amount | Date | Particulars | Folio | Amount |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Disease  Symptom | Livestock  affected | Drugs used | Cost of  treatment | Remarks |
|  |  |  |  |  |  |

these transactions in the account above.

(b) State**two** maintenance practices that are carried out on the equipment used in the

(c) Give**one** advantage drip irrigation has over the method of irrigation illustrated above

(b) On 10th January 2011, the poultry farmer bought 5 bags of layers mash worth



**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)

method illustrated above. (2 marks)

in crop disease control. (1 mark)

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

(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.

(a) Identify the financial book. (1 mark)

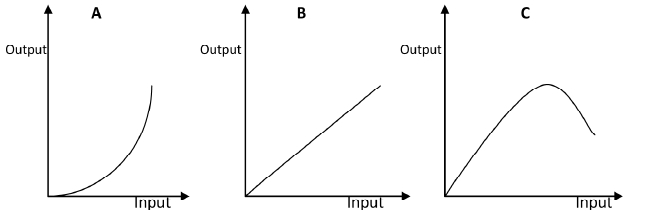
Ksh. 10 000/-  and sold 100 trays of eggs for Ksh. 20 000/- on 10 January 2011.  Enter

(3 marks)

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**19** The following illustrations show different production function curves in agricultural

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



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)

(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)

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**23** (a) Describe the preparation and handling of stem cuttings when planting napier grass.

(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)

(5 marks)

(b) Describe the production of onions under the following sub-headings:

(i) seedbed preparation (3 marks)

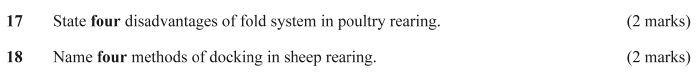
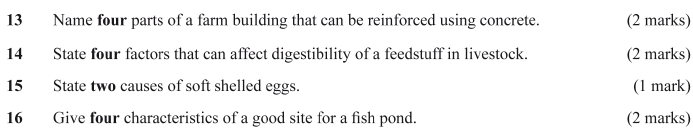
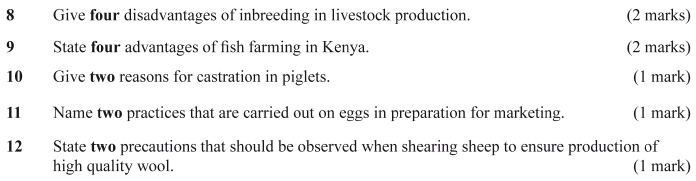
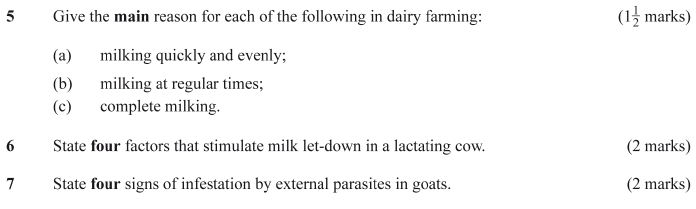
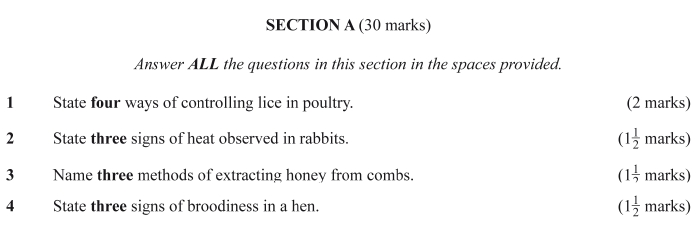
(ii) field management (4 marks)

(iii) harvesting. (3 marks)

(c) Give**five** reasons why land consolidation should be encouraged in Kenya.

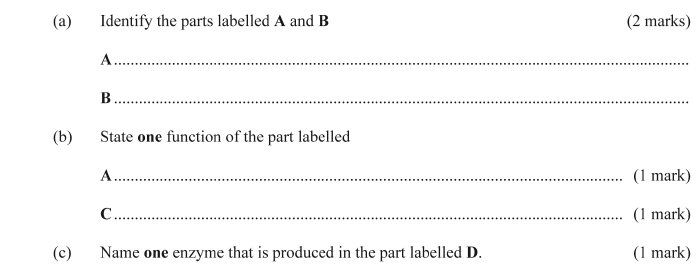
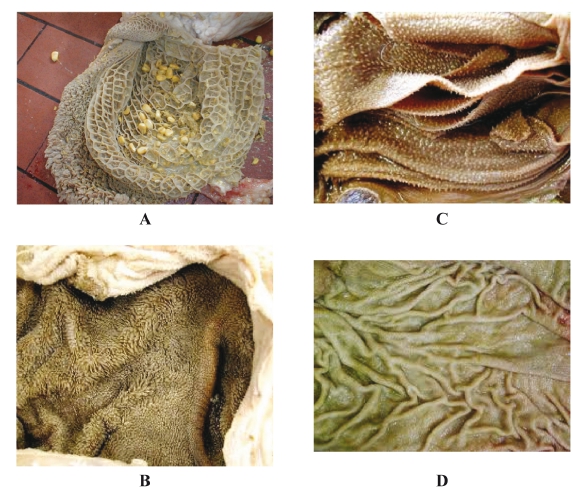
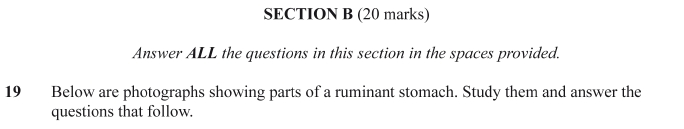
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(5 marks)

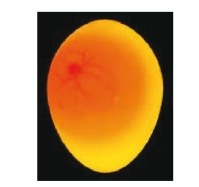
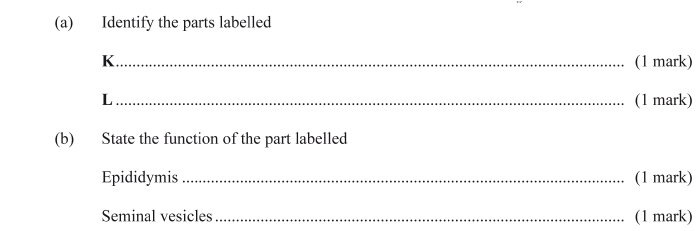
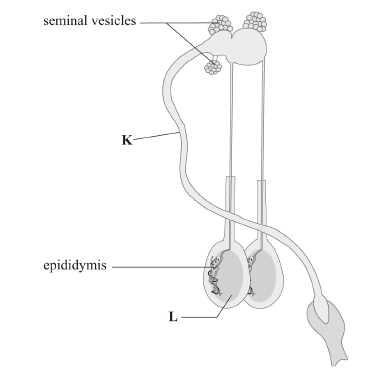


**3.15.2  Agriculture Paper 2 (443/2)**

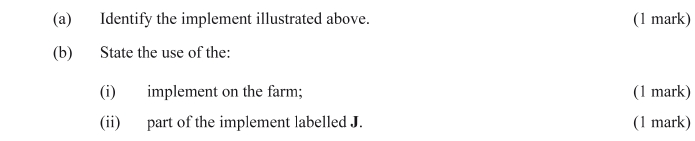
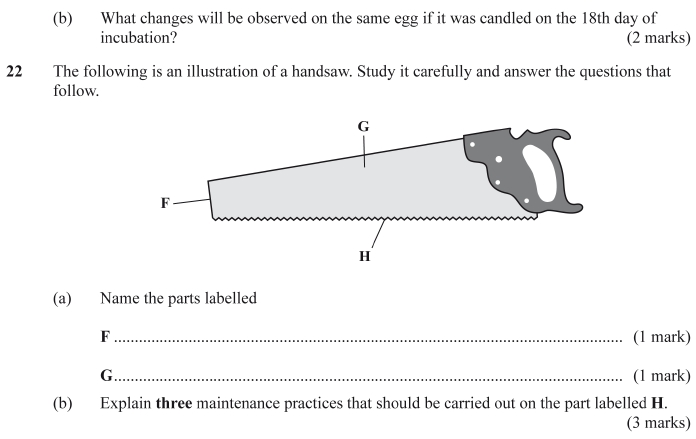
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