

NAME..... INDEX NO.....

CANDIDATES SIGN.....

DATE.....

443/1

AGRICULTURE

PAPER 1

MARCH/APRIL 2018

2 HOURS

# POST EVALUATION EXAMS

## AGRICULTURE PAPER I

Paper I  
Theory  
(2 Hours)

### INSTRUCTIONS TO CANDIDATES

- [a] Write your name and index number in the spaces provided above.
- [b] Sign and write the date of examination in the spaces provided above.
- [c] This paper consists of three sections: A, B and C.
- [d] Answer **all** the questions in sections **A** and **B** and any **two** questions in Section **C**
- [e] All answers should be written in the spaces provided on the question paper
- [f] Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

For Examiners Use Only

SECTION	QUESTIONS	MAX.SCORE	CAND.SCORE
A		30	
B		20	
C		20	
		20	
	<b>TOTAL SCORE</b>	<b>90</b>	

**SECTION A: (30 marks)**

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

1. State **four** advantages of mixed farming (2 marks)  
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2. Give **two** ways in which pastures are classified (1 mark)  
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3. Outline **four** effects of high level of education and technology on agriculture (2 marks)  
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4. State **three** features that characterize subsistence farming (1½ mks)  
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5. List **three** aspects of light that affect agricultural production (1½ mks)  
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6. Give **four** farming practices in agriculture that destroy soil structure (2 marks)  
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7. State **four** characteristics of clay soil (2 marks)  
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- .....
- .....
8. State **three** reasons for erecting a shade over a nursery bed (1½ mks)
- .....
- .....
- .....
- .....
9. Give **three** characteristics of a good root stock (1½ mks)
- .....
- .....
- .....
- .....
10. List **four** tertiary operations carried out on a seedbed (2 marks)
- .....
- .....
- .....
- .....
11. Give **four** reasons for subsoiling (1 mark)
- .....
- .....
12. Outline **four** reasons why seed selection is important in the establishment of crops (2 marks)
- .....
- .....
- .....
- .....
13. State **four** factors considered when determining the time of planting (2 marks)
- .....
- .....
- .....
- .....
14. Give **four** examples of fixed costs in agricultural production (2 marks)
- .....
- .....



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15. State **three** ways in which land reform can be implemented in Kenya (1½ mks)

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16. State **three** advantages of earthing up in crop production (1½ mks)

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17. a) Give **three** reasons for training tomatoes (1½ mks)

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b) Give a reason for cutting back pyrethrum (½ mark)

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**SECTION B: (20 marks)**

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

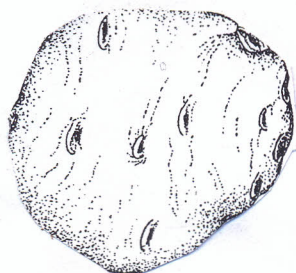
18. A farmer is to apply a fertilizer 20:30:10 on a vegetable plot measuring 5m by 8m at the rate of 200kg/ha.

a) Calculate the amount of fertilizer the farmer requires for the plot (2 marks)

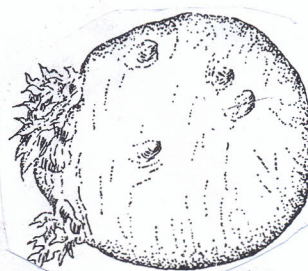
(Show your working)

b) What do the figures 20, 30 and 10 in the fertilizer stand for (1 mark)

19. Below are two diagrams of Irish potato tubers after being subjected to some conditions before planting.



Before subjecting to the conditions



After subjecting to the conditions

- a) Which process of potato treatment is illustrated above (1 mark)

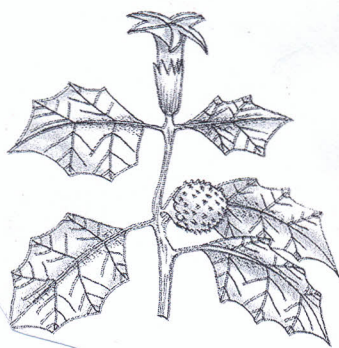
- b) State **two** conditions necessary for the above process. (2 marks)

- c) Give **two** reasons for carrying out the above practice (2 marks)

20. Below are illustrations of type of weeds. Study them and answer questions that follow.



E



F



G



H

a) Identify the weeds labelled E to H (2 marks)

E .....

F .....

G .....

H .....

b) State a reason why it is difficult to control weed labelled H (1 mark)

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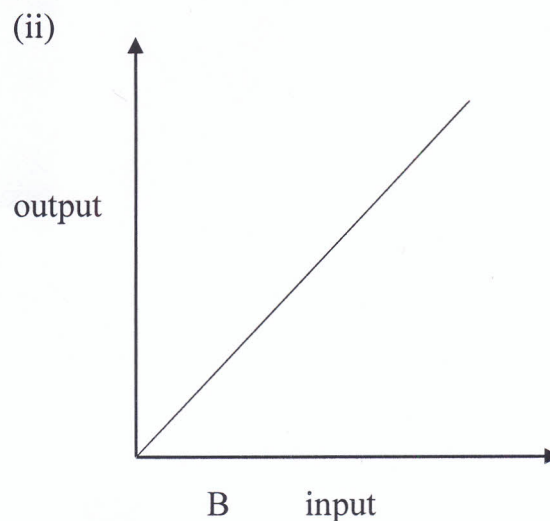
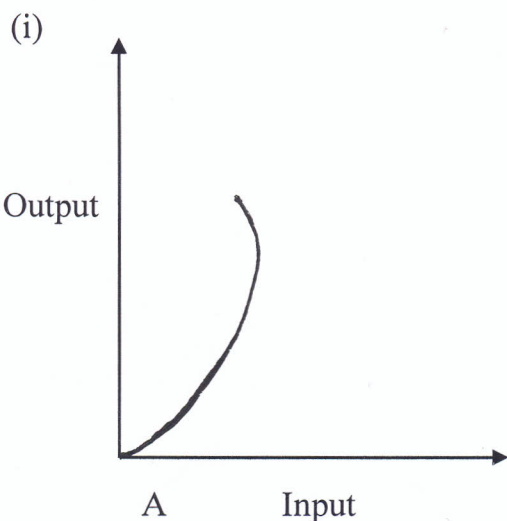
c) Name **two** other weeds with underground structures that make them difficult to control (2 marks)

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21. a) What is a production function? (1 mark)

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b) Below are graphical representations of different production functions. Study and answer the questions that follow.



Identify the type of production function represented by diagrams A and B. (2 marks)

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.....

c) Giving reason, which production function is common in agricultural production? (1 mark)

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22. The diagram below illustrates a micro-catchment. Study it and answer the questions that follow.



- a) Identify the type of micro-catchment above (1 mark)

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- b) State **one** use of the above structure (1 mark)

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- c) A part from this type, state one other types of micro-catchments (1 mark)

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**SECTION (40 marks)**

*Answer any TWO questions from this section in the spaces provided.*

23. a) Explain **twelve** cultural methods of pests control in crop production (12 marks)
- b) Explain **eight** factors that encourage soil erosion (8 marks)
24. a) Describe the roles of mulches in crop production (6 marks)
- b) Explain the role of agriculture in economic development (10 marks)
- c) Explain factors that increases higher seed rate in crop production (4 marks)
25. a) Describe **five** categories of vegetables and their part used as food giving relevant examples (10 marks)
- b) Discuss the functions of a manager in the farm (10 marks)

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