



# MASENO SCHOOL

Name: ..... Index Number: .....

Candidate's Signature: ..... Date: .....

## THE MASENO SCHOOL MOCK EXAMINATIONS

**443/1**  
**AGRICULTURE**  
**PAPER 1**  
**JULY/AUGUST 2019**  
**TIME: 2 HOURS**

443/1-Agriculture- P1  
 Tuesday 11/07/2019  
 Time: 11:00am-1:00pm

**Kenya Certificate of Secondary Education**  
**AGRICULTURE**  
**PAPER 1**  
**TIME: 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** questions in Section A and B.
- (e) Answer **ANY Two** questions in Section C in the spaces provided.

**FOR EXAMINERS USE ONLY**

Section	Question	Maximum score	Candidates score
A	1 - 20	30	
B	21 – 23	20	
C	24 – 26	20	
		20	
	<b>Total score</b>	<b>90</b>	



**SECTION A (20MKS)**

*(Answer all the questions).*

1. What factors would you consider in identifying a farming system. (1mk)

---

---

---

2. What is olericulture? (1/2mks)

---

---

3. Differentiate between a soft loan and a hard loan. (1mk)

---

---

---

---

4. Outline four ways of acquiring land in Kenya. (2mks)

---

---

---

---

---

5. What is the meaning of the term Livestock? (1mk)

---

---

---

6.State two categories of capital used in production process. (1mk)

---

---

---

7.How can a farmer increase light intensity in the field crops? (2mks)

---

---

---

---

8.Give four different types of terraces which may be used to conserve soil and water in the farm

---

---

---

---

---

9.Give four ecological requirement of Napier grass. (2mks)

---

---

---

---

---

10.List two methods of breaking hardpans. (1mk)

---

---

11.Name four diseases caused by untreated water in the farm. (2mks)

---

---

---

---

---

12.Give three examples of compound fertilizer. (1<sup>1</sup>/<sub>2</sub>mks)

---

---

---

---

13.List down four basis herbicide classification. (2mks)

---

---

---

---

---

14.List down three types of nurseries. (1<sup>1</sup>/<sub>2</sub>mks)

---

---

---

---

15. Give three reasons why agriculture is important for development of industries. (1½mks)

---

---

---

---

16. State the three economic concepts. (1½mks)

---

---

---

---

17. Define the term "Under sowing" (½mks)

---

---

18. Outline four features of a fertile soil. (2mks)

---

---

---

---

19. State four harmful effects of weeds in pasture production and livestock nutrition. (2mks)

---

---

---

---

---

20. Highlight four functions of Young Farmers clubs in Kenya.

(2mks)

---

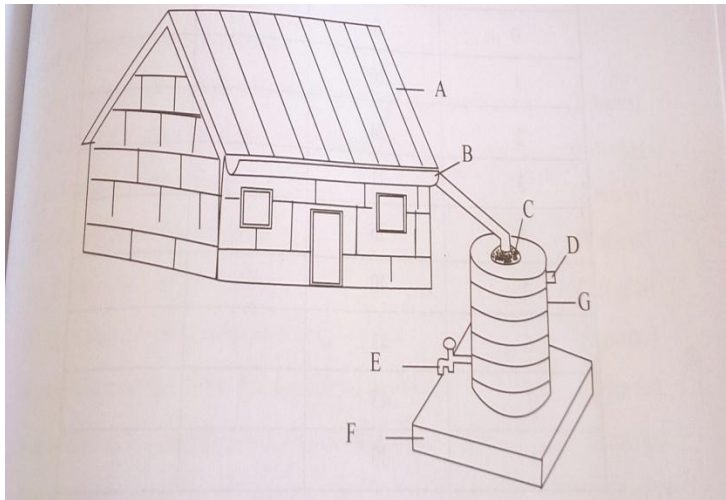
---

---

**SECTION B (20MKS)**

*(Answer all the questions)*

21. Below is a diagram showing one method of water harvesting in the farm. Study it and answer the questions that follow.



(a) Identify the parts labeled A, B, C and F.

(2mks)

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

F \_\_\_\_\_

(b) Identify the method of water harvesting.

(1mk)

---

---

(c)What are the uses of parts C, D G and E. (2mks)

C \_\_\_\_\_

D \_\_\_\_\_

G \_\_\_\_\_

E \_\_\_\_\_

(d)Name other four methods of water harvesting in the farm. (2mks)

---

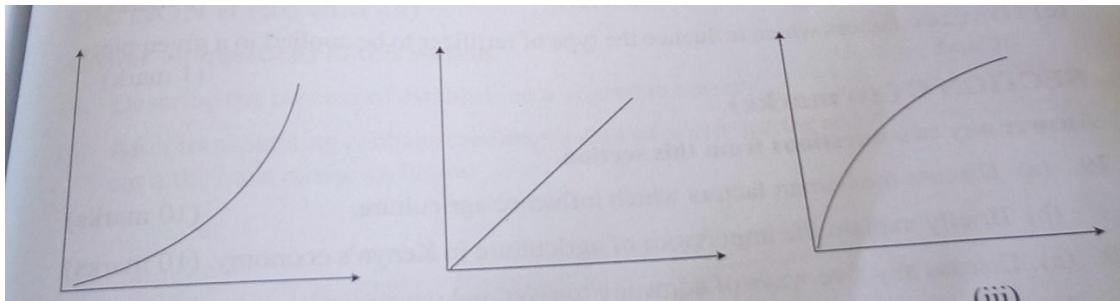
---

---

---

---

22.Below are graphical presentation showing different types of production functions,Study them and answer the questions that follow.



(i)

(ii)

(iii)

(a)Identify the types of production function represented by the diagrams. (3mks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(b)What is production function? (1mk)

---

---

---

(c)The table below represents the yield of maize in 90kg bags in response to application of different quantities of planting fertilizer .

(i)Fill the blank spaces. (4mks)

Input 50kg bag fertilizer	Input 90kg bag Maize	Average product.(AP)	Marginal Product(MP)
0	6		
1	10		
2	24		
3	31		
4	36		
5	40		
6	43		
7	43		
8	40		

(ii)Suggest the best level of production in relation to the inputs and output. (1mk)



---

---

23. A farmer is to apply compound fertilizer 20;20;10 on a vegetable plot measuring 4m by 3m wide at rate of 200kg per hectare.

(a) Calculate the amount of fertilizer to be applied on the plot. Show your working. (2mks)

(b) What do the figures 20 and 10 stand for? (1mks)

---

---

---

(c) Give two factors which influence the type of fertilizer to be applied in a given piece of land. (1mk)

---

---

---

**SECTION C (40MKS)**

*Answer any two questions from this section.*

24.(a)Discuss any five ways of adjusting to risks and uncertainties.(10mks)

(b)Give ten pests and give one example of a crop that is attacked by each of the

pests.

(10mks)

25.The following information was extracted from Mr.Koros's farm.

Cash at hand,Ksh 5000,Bank overdraft Ksh 40,000,Land value Ksh 500,000,Lorry wrth Ksh 300,000,Grains in storeKsh 80,000,Diry cattle Ksh 15,000,Cash in bank Ksh 50,000.Debts receivable from dairy Coop Ksh 12,500,Layers Ksh 30,000,Debts payable Ksh 26,100.

(a)Using the above information,prepare a balance sheet for Mr.Koros's farm as at 31<sup>st</sup> September 2007. (15mks)

(b)What is the Net worth of the farm? (1mk)

(c)Describe the following books of accounts

(i)Inventory. (2mks)

(ii)Cash book. (2mks)

26.Describe the production of Maize from seedbed preparation to harvesting. (20mks)





---