# **KCSE 2023 PREDICTION CYCLES**



## **KCSE 2023 TOP PREREDICTION CYCLE 1-10**

### **CLASS OF KCSE 2023 NOVEMBER**

The set Comprises of 10 Prediction Cycles prepared by a panel of Top Writers from KNEC Nairobi HQ

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All the best to all KCSE 2023 Candidates as they prepare for the national exams

### KENYA EDUCATORS CONSULTANCY

Name:	Index no
School:	Candidate's sign
Class	Adm No
AGRICULTURE 443/1	
PAPER 1	
TIME: 2 HOURS	

## **KCSE 2023 TOP PREDICTION MASTER CYCLE 1**

Kenya Certificate of Secondary Education (K.C.S.E.)

Agriculture

Paper 1

#### **INSTRUCTIONS TO CANDIDATES:**

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three sections A, B and C.
- Answer all the questions in section A and B.
- *Answer any two questions in section C.*
- All answers should be written in the spaces provided.
- This paper consists of 13 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer all the questions in English.

#### For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
В	18-21	20	
С		20	
		20	
	TOTAL SCORE	90	

#### **SECTION A (30 MARKS)**

1.	State <b>two</b> conditions under which opportunity cost is zero.	(1mk)
2.	Name <b>three</b> branches of horticulture.	
۷.	Name three orangees of norticulture.	
3.	State <b>four</b> factors a farmer should consider when choosing the farming system to	
		• • • • • • • • • • • • • • • • • • • •
4.	State <b>four</b> disadvantages of communal land tenure system.	(2mks)
5.	Give <b>four</b> pieces of information found on a land title deed.	(2mks)

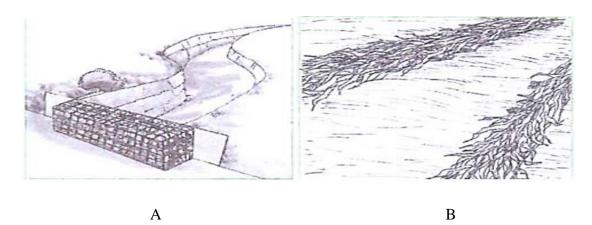
6.	State <b>four</b> reasons for deep ploughing during land preparation.	(2mks)
7.	State <b>four</b> characteristics of a good top soil.	(2mks)
8.	Give <b>three</b> reasons for sub soiling.	$(1\frac{1}{2}mks)$
		•••••
9.	Differentiate between seed inoculation and seed dressing.	(1mk)
10.	State <b>four</b> effects of soil erosion.	(2mks)
		······

11.	Out	line <b>four</b> practices necessary to improve and maintain permanent pastures.	(2mks)
	••••		
	• • • • •		
	• • • • •		
	••••		
12.	Stat	e <b>two</b> causes of poor drainage on farmland.	(1mk)
	••••		•••••
	••••		• • • • • • • • • • • • • • • • • • • •
	••••		
13.	Stat	e <b>four</b> reasons for mulching.	(2mks)
			• • • • • • • • • • • • • • • • • • • •
	• • • • •		
14.		e the function of each of the following in the preparation of compost manure.	(2mks))
	a)	Top soil	
			•••••
	b)	Well rotten manure	
			•••••
			• • • • • • • • • • • • • • • • • • • •
	c)	A thin layer of wood ash	
			•••••
	1\		•••••
	d)	Long pointed stick	
			•••••

15	. State <b>four</b> deficiency symptoms of phosphorus.	(2mks)
16	. State <b>four</b> characteristics of nitrogenous fertilizers.	(2mks)
17	. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)

#### **SECTION B (20 MARKS)**

18. The illustrations labelled A and B show some farm structures used in soil and water conservation. Study them carefully and answer the questions that follow.

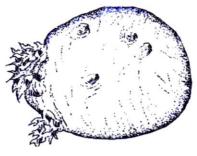


a)	Identify structures A and B.	(1mk)
	A	•••••
	B	
b)	Name the type of soil erosion controlled by structures A and B.	(2mks)
	A	• • • • • • • • • • • • • • • • • • • •
	B	
c)	State <b>two</b> ways in which the structures help to control soil erosion.	(2mks)

19. The diagrams below illustrate irish potato seed preparation before planting. Study it carefully and answer the questions that follow.



the questions that follow.



(b) After the practice.

a)	Name the practice used in preparing the seed potato above before planting.	(1mk)
b)	Describe the procedure followed in preparing the seed potatoes for planting.	(3mks)
c)	Give <b>one</b> reason for carrying out the practice named above.	(1mk)

20. The photograph below shows an irish potato plant attacked by a disease. Study it and answer



a)	Identify the disease represented by the photograph.	(1mk)
b)	Name the causative agent of the diseases.	(1mk)
c)	Give <b>one</b> other crop that can be attacked by the same disease.	(1mk)
d)	List <b>two</b> control measures of the disease.	(2mks)
21. Th	ne photographs below show common weeds C and D in pasture land. Study	y them carefully

and answer the questions that follow.



C D

a) Identify weeds C and D.	(2mks)
C	
D	
b) Classify weed D according to plant morphology.	(1mk)
c) State the major problem posed by each of the weeds above in pasture land.	(2mks)
C	, , , ,
D	
SECTION C (40MARKS)	
22. a) State <b>four</b> benefits of sowing annual crops early.	(4mks)
b) Describe eight effects of fragmentation and sub division of land.	(8mks)
c) Explain <b>eight</b> effects of weeds.	(8mks)
23. a) Describe the various field management practices for tomatoes.	(8mks)
b) State the precautions that should be observed when harvesting cotton.	(4mks)
c)Explain <b>four</b> importance of crop rotation.	(8mks)

24.	a) Explain <b>four</b> factors to consider in choosing the type of irrigation to use in the farm	n.
		(8mks)
	b) Explain <b>five</b> farming practices that destroy soil structure.	(5mks)
	c) Describe <b>seven</b> reasons why farmers need to keep good farm records.	(7mks)
		` ,
		• • • • • • • • • • •
		• • • • • • • • • •
		· • • • • • • • • • • • • • • • • • • •

NAME	INDEX NO
DATE	CANDIATES SIGNATURE
443/1	
AGRICULTURE	
TIME: 2 HRS	

TAIDEN NO

## **KCSE 2023 TOP PREDICTION MASTER CYCLE 2**

Answer all the questions in this section in the spaces provided	
1a)Distinguish between flood irrigation and basin irrigation	(1mk)
b) Give two maintenance practices required in flood irrigation system.	(1mk)
2) State the fate of water added to soil in crop field. (2mks)	
3a)Name two crops which after harvesting are processed using a flail.	(1mk)
b) What name is give to the practice in 3a above.	(1/2mk)
4State two conditions under which opportunity cost can be zero.	(2mks)
5. Shown below is part of a record found in Nyali farm	

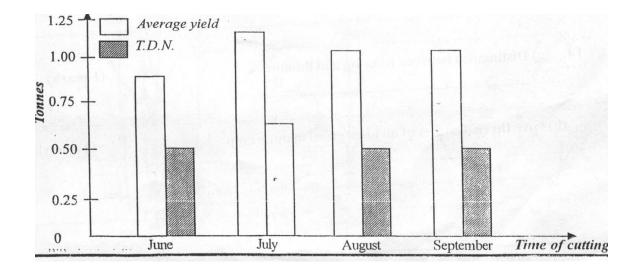
Item	Quantity Date Acquired		Original Unit Cost (KSH)
Watering trough	2	03.03.2006	3 600
Hand hoes	4	31.05.2005	250
Wheel barrow	1	04.01.2005	2 310
Machetes	6	11.07.2004	169
Buildings	2	Diverse dates	284 000
Milking shed	1	02.02.2004	32 600
Cattle	11	Diverse dates	66 000
Sheep	14	Diverse dates	2 100

a)i	Identify the type of record shown above.	(1mk)
	ii) Give reason for your answer to a (i) above.	(1mk)
	b)What other column should be added to this record, to make it complete.	(1mk)
	6Give two disadvantages associated with burning as a land clearing method.	(1mk)
	7(a)Name three components of rooting mixture used in polythene sleeves in raising to	ree seedlings (3mks)

- b) State two benefits of using polythene sleeves, in raising tree seedlings. (2mks)
- 8. a)Define tissue culture. (1mk)

bGive three advantages of tissue culture

9. Shown below is the average yield and total digestible nutrients (TDN) per hectare of hay cut in June July, August and September



a)From the graph identify the relationship between average yield and total digestible nutrients of hay. (1mk)				
a) From the graph, identify the most appropriate month of harvesting hay.	(1mk)			
10. Outline how the age of an animal influences the quality of farm yard manure	production form it. (1mk)			
11. List four soil requirements for tomatoes.	(2mks)			
12. Under what circumstance are beans referred to as vegetables.	(1mk)			
13a) State two conditions that may lead to land fragmentation.	(1mk)			
b) Give two benefits of land fragmentation.	(1mk)			

b) Give three features of an ideal green manure crop.

(11/2 mks)

SECTION B (20MKS)

15 Given below is an illustration of water levels of undrained and tile – drainage land in the sowing and maturation stage of cereal crop

water-free level

water-free level

water-free level

water-free level

(c) Tile - Drained Land

water-free level

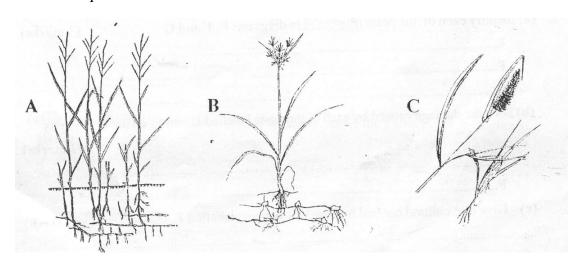
(a) Undrained Land

b) What three advantages may be associated with tile-drainage? (11/2mks)

`	<b>a</b>	• .	•	C . 1 1	•
•	State two	maintenance	requirements	of file-dr	ainage system.
-,	Diate two	mamiculance	requirements	or the di	amage system.

(1mk)

16. The diagrams labeled A,B and C below illustrate some weeds. Study the diagrams carefully and then answer the questions that follow.



a) Identify each of the weeds illustrated in diagram A,B and C.

(3MKS)

Α

В

C

B)i Classify the weeds into two groups, on the basis of their life cycles. (21/2marks)

ii) Give reasons for you answer in (bi) above.

(3mks)

c)State two negative effects of weed C, on livestock.

(1mk)

a) Identify each of the pest illustrate in diagram E,F, and G. (3MKS)

B) State the damage caused by each of the pest labeled E and F, on the host plants. (mksa\_

c)Give one cultural control measure for the pest labeled E

17. The diagram labeled E, F and G below illustrate some pest found in vegetables study the diagrams

SECTION C (40MKS)

d) Other than vegetables name two crop plants that may be infested with the pest labeled G

(1mk)

Answer an two question in this section the space provided			
18Discuss vegetable crops under the following sub- headings			
a)Definition of vegetable.	(1mk)		
b)Management of perishability vegetables.	(4mks)		
c)Importance of vegetables.	(6mks		
d)Common stem vegetables.	(4mks)		
e)Staking in tomatoes.	(5mks)		
19a) Discuss budding a applied in crop production under the following sub-headings			
i) Timing	(5mks)		

ii)	Advantages over grafting.	(4mks)		
iii)	Materials used.	(6mks)		
iv)	Briefly describe whip grafting.	(5mks)		
20 Discuss wind erosion under the following sub- headings a)Destructive effects of wind erosion on crop plants. (5mks)				

e)	Factors affecting susceptibility of soil to wind erosion.	(15mks)

#### 443/1 AGRICULTURE

#### PAPER 1

(THEORY)

**DURATION:: 2HRS** 

### **KCSE 2023 TOP PREDICTION MASTER CYCLE 4**

Kenya Certificate of Secondary Education (K.C.S.E.)

Name	Adm No
Stream	Date
Sign	

#### Instructions to candidates

- a) Write your name and index 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*.
- e) Answer any two questions in section C
- f) All answers should be written in the spaces provided in the question paper.

#### For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
A	1 - 20	30	
В	21 - 26	40	
С	27-29	20	
Total S	core	90	

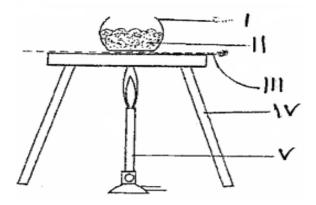
1.	State two methods which can be used to detect mineral deficiency in crops.	(lmk)
2.	State <b>two</b> conditions under which shifting cultivation is favourable.	(lmk)
3.	State two conditions under which seeds are seeded at a high seed rate.	(2mks)
4.	State <b>three</b> ways in which trees improve soil fertility.	(1 <sup>1</sup> / <sub>2</sub> mks)
5.	Give <b>three</b> causes of hardpans in cultivation.	$(1^{1}/_{2} \text{ mks})$
6.	Under what <b>two</b> conditions does opportunity cost not exist?	(lmk)
7.	Give <b>two</b> roles of additives in silage making.	(lmk)
8.	Outline <b>four</b> advantages of mixed farming.	(2mks)

		• • • • • • • • • • • • • • • • • • • •
9.	Give <b>three</b> reasons why bulbils make good planting materials than suckers.	(2mks)
10	Give <b>three</b> reasons why agriculture is defined as a science.	$(1  ^{1}/_{2}  \text{mks})$
		• • • • • • • • • • • • • • • • • • • •
11.	. Give <b>four</b> characteristics of large scale farming system.	(2mks)
		•••••
		• • • • • • • • • • • • • • • • • • • •
10		
12.	. State <b>four</b> farming practices which help to improve soil structure.	(2mks)
		• • • • • • • • • • • • • • • • • • • •
		••••••
		• • • • • • • • • • • • • • • • • • • •
13	. Give <b>four</b> effects of top dressing on a pasture.	(2mks)
10.	. Give tour effects of top aressing off a pastare.	(ZIIIKS)
14.	. What are the two reasons for innoculating legume seeds before planting .	(1mk)
15.	. State <b>two</b> advantages of carrying out pruning in banana production.	(1mk)

16.	(i)	nize hybrid 614 what do the following figures stand for?  6	(1mk)
17.	(ii) Give	4 <b>two</b> ways in which pastures are classified.	(1mk)
18.	 Name	e <b>four</b> practices carried out to improve and maintain permanent pasture.	(2mks)
19.		four advantages of tissue culture.	
20.	Give	three stages of controlling devils horsewhip by mechanical means.	(1½ marks

#### **SECTION B**

21. The diagram below shows a set up of apparatus for finding the percentage of humus contents in a soil by ignition.



a)	Label the apparatus.			
	I			
	II			
	III			
	IV			

(i) Identify the weeds above. (2 marks)  (ii) State the economic importance of the weed shown in diagram G. (2 marks)	Outli	ine the steps followed in carrying out the illustrated experiment.	(3 mark
G			
G			
	(i)	G	(2 mark
	(ii)		(2 marks)
	 (iii)	Why is it difficult to control weed in diagram <b>G</b> ?	(1 mark
(iii) Why is it difficult to control weed in diagram <b>G</b> ? (1 mark			

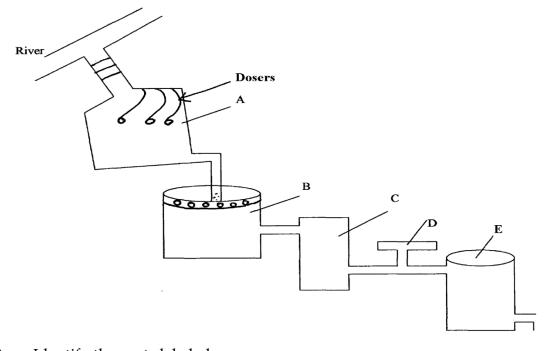
(a) Identify the pest	(1 mark
b) State two methods of controlling the pest.	(2 mark
c) Name the crops attacked by the pest.	(2 mark
The diagram below illustrates a field management practices in tom	atoes
The diagram below illustrates a field management practices in tom	atoes
The diagram below illustrates a field management practices in tom	atoes
The diagram below illustrates a field management practices in tom	atoes
The diagram below illustrates a field management practices in tom	atoes
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The diagram below illustrates a field management practices in tom.	atoes
The diagram below illustrates a field management practices in tom	atoes
The diagram below illustrates a field management practices in tom	atoes
The diagram below illustrates a field management practices in tom.  (i) Identify the practice	
	atoes (1 mark

23. Study the pest below and answer the questions below.

•••		(4 1)
ii)	Give another practice that could be carried out to give the same results.	(1 mark)
 Stud	ly the diagram below then answer the questions that follow:	
	top soil	
	stones	
(a) Io	dentify the method of drainage above.	(11
		(11 (3mks)
(b) S	dentify the method of drainage above.  State other <b>three</b> methods used to drain swampy areas.	(3mks)
(b) S	dentify the method of drainage above.  State other <b>three</b> methods used to drain swampy areas.	
(b) S	dentify the method of drainage above.  State other <b>three</b> methods used to drain swampy areas.	(3mks)
(b) S	dentify the method of drainage above.  State other <b>three</b> methods used to drain swampy areas.	(3mks)
(b) S	dentify the method of drainage above.  State other <b>three</b> methods used to drain swampy areas.	(3mks)

 •

26. Study the processes of chemical water treatment below and answer the questions that follow:



(a)	ldent	ity the parts labeled:	(2mks)
	A		•••••
	В		
	C		•••••
	D		•••••
(b)	State	two chemical substances added at part labeled B and give their funct	ions.
			(2mks)
			•••••
			•••••
(c)	State	two factors which influence the quantity of the chemical used in part	labeled D.
			(2mks)
			• • • • • • • • • • • • • • • • • • • •
			• • • • • • • • • • • • • • • • • • • •
(d)	State	three uses of water in crop production.	(3 mks)
			• • • • • • • • • • • • • • • • • • • •

	(e)	State <b>three</b> types of production functions in agriculture.	(3mks)
		SECTION C (20MKS)	
27.	(a)	Describe the cultural methods of weed control in crop production.	(l0mks)
	•••••		
	•••••		• • • • • • • • • • • • • • • • • • • •
	•••••		
	•••••		
	•••••		
	•••••		
	•••••		• • • • • • • • • • • • • • • • • • • •
	(b)	Describe the harmful effects of pests on crops	(10mks)
	•••••		•••••
			• • • • • • • • • • • • • • • • • • • •

8. (a) Discuss the human factors which influence agriculture. (10 marks)			•••••
			•••••
			•••••
	28.	. (a) Discuss the human factors which influence agriculture.	(10 marks)
			• • • • • • • • • • • • • • • • • • • •

29	Describe the production of carrots under the following sub heading	gs
	a) Seedbed preparation	(3 marks)
b)	Harvesting	(4 marks)

c)	Explain five cultural methods of weed control in beans production.	(10 marks)
		•••••
d)	Outline three roles of sulphur in crop production.	(3 marks)
		•••••
		•••••
		•••••

NAME	ADM.NO	CLASS/STREAM
SCHOOL	SIGNATURE	<b>DATE</b>
443/1 AGRICULTURE PAPER 1		

# **KCSE 2023 TOP PREDICTION MASTER CYCLE 5**

## **INSTRUCTIONS TO CANDIDATES:**

- This paper consists of three section A, B and C
- Answer all questions in section A and B

TIME: 2 HOURS

- Answer any two questions in section C
- All the questions should answered in the spaces provided

## **FOR EXAMINERS USE ONLY**

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-15	30	
В	16-19	20	
C	20-22	20	
		20	
TOTAL SCORE	2	90	

## **SECTION A (30 MARKS)**

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

1.	List four methods of farming	(2marks)
2.	Give <b>two</b> characteristics of small scale farming.	(1mark)
2.	Outline <b>four</b> qualities of a mother plant that should be considered w	when selecting vegetative
	materials for planting	(2mks)
4.	Stae four characteristics of a fertile soil.	(2mks)

5. State two benefits of optimum soil temperature in crop product	tion. (2 mk)	
		•••••
6. Give four soil factors that influence soil productivity.	(2mks)	
7. Give <b>two</b> reasons why root pruning is done in the nursery man	agement in agro forestry.(1mk)	
8. State <b>four</b> sources of nitrogen in the soil.	(4 marks)	

9. \$	9. State <b>four</b> factors that affect the rooting of cuttings in tea and sugar cane. (2 r	mks)
	10. Outline <b>four</b> factors that determine the choice of a weed cor	ntrol measure to use in a crop field.
(2r	(2mks)	
11.	11. List <b>four</b> types of terraces	(2mks)

12.	State <b>two</b> ways by which organic mulches help to conserve moisture in the soil. (2mks)
12	Differentiate between under covering and even serving as used in female Dredentian
13.	Differentiate between under-sowing and over-sowing as used in forage Production.  (2mks)
•	
•	
14.	State four factors that determine the quality of hay. (2mk)
15.	State <b>three</b> ways of reclaiming water logged land. (3 mks)

SECTION B (20 MARKS)	
Answer All the questions in this section in the spaces provided	
6. The diagram below shows a tomato fruit affected by a pest. Study i	t carefully then answer the questions that follow.
(a) Identify the pest labeled <b>P</b> (1mk	<u>(</u> )
(b) State <b>one</b> method used to control the pest.	(1mk)
(c) State any <b>three</b> factors to consider when selecting tomato fruits	for marketing. (3mks)

17 . Below is a diagram showing a method of land reclamation. Study it carefully then answer questions that follow.  Planted crops  Water			
(a) Identify the method of drainage illustrated above	(1mk)		
(b) State <b>two</b> reasons for carrying out drainage.	(2mks)		
18. (a) Money maker variety of tomatoes are spaced at 100cm by 60cm. Calculate the number of plants which would accommodate half an hectare of land. (3mks)			
	•••••		

(b) Give <b>two</b> importance of suitable plant population	(2mks)
19. The diagram below illustrates a feature observed afte answer the questions that follow	r digging the soil several meters deep. Study the diagram carefully and
answer the questions that follow	B C C
a) Identify the feature that the diagram above represents	(1mk)

)	Name the parts of the diagram labeled B,C and D	(3mks)
	B	
	C	
	D	
2)	Outline three characteristics of the part labeled A	(3mks)

# Answer any two questions in this section 20. (a) Explain eight factors that can encourage soil erosion. (8 marks)

**SECTION C (40 MARKS** 

(b) Describe the seven management practices that should be carried out on a vegetable nursery after sowing seeds until the seedlings are ready for transplanting. (7 mks)

(c) State five soil factors that should be considered when selecting a crop to grow in anarea. (5mks)

21 (a) Outlinefive ways in which high tempe Kenya.	erature affects agricultural production in (5 marks)

	(ii)	Describe	the harvest	ing of sugar ca	nne.		(4 marl	ks)	
	•••••								
	•••••							•••••	
	•••••								
	•••••								
								•••••	
(b)	(i)	Explain fo	our precaution	ns that should b	e observed whe	en harvesting	cotton. (4 mar	·ks)	
	•••••							•••••	 
	•••••							•••••	

(c) Explain how government policies affect agricultural production. (7mks)
(c) Explain how government policies affect agricultural production. (7mks)
(c) Explain how government policies affect agricultural production. (7mks)
(c) Explain how government policies affect agricultural production. (7mks)
(c) Explain how government policies affect agricultural production. (7mks)
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(c) Explain how government policies affect agricultural production. (7mks)
(c) Explain how government policies affect agricultural production. (7mks)
(c) Explain how government policies affect agricultural production. (7mks)

22. (a)	Explain six physical methods that can be used to control crop pests on the farm.(6 mks)

(b)	Describe the production of bulb onions under the following sub-headings:				
	(i)	Field management	(4 marks)		
•••••	•••••				
••••••	••••••				
••••••	••••••				
			•••••		
	•••••				
•••••	•••••				
(ii)	Harve	esting (3 n	narks)		
•••••	•••••				
••••••	••••••		•••••		

	(d) Explain seven factors that influence seed rates in crop production. (7 marks)
••••	
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Name:	Index no
School:	Candidate's sign
Class	Adm No
AGRICULTURE 443/1	
PAPER 1	

## **KCSE 2023 TOP PREDICTION MASTER CYCLE 6**

Kenya Certificate of Secondary Education (K.C.S.E.)

Agriculture
Paper 1

## **INSTRUCTIONS TO CANDIDATES:**

**TIME: 2 Hours** 

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three sections A, B and C.
- Answer all the questions in section A and B.
- Answer any two questions in section C.
- All answers should be written in the spaces provided.
- This paper consists of 13 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer all the questions in English.

## For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
В	18-21	20	
С		20	
		20	
L	TOTAL SCORE	90	

# **SECTION A (30 MARKS)** 1. State **two** conditions under which opportunity cost is zero. (1mk) $(1\frac{1}{2}mks)$ 2. Name **three** branches of horticulture. State **four** factors a farmer should consider when choosing the farming system to undertake. (2mks) 3. State **four** disadvantages of communal land tenure system. 4. Give **four** pieces of information found on a land title deed. (2mks) 5. State **four** reasons for deep ploughing during land preparation. (2mks)

6.	State <b>four</b> characteristics of a good top soil.	(2mks)
7.	Give <b>three</b> reasons for sub soiling.	$(1\frac{1}{2}mks)$
8.	Differentiate between seed inoculation and seed dressing.	(1mk)
9.	State <b>four</b> effects of soil erosion.	(2mks)
10.	Outline <b>four</b> practices necessary to improve and maintain permanent pastures.	(2mks)
		•••••

11.	Stat	e <b>two</b> causes of poor drainage on farmland.	(1mk)		
12.	Stat	e <b>four</b> reasons for mulching.	(2mks)		
	• • • • •				
12.	••••				
	••••				
13.	Giv	e the function of each of the following in the preparation of compost manure.	(2mks))		
		Top soil			
	b)	Well rotten manure			
	c)	A thin layer of wood ash			
	d)	Long pointed stick			
14.	Stat	e <b>four</b> deficiency symptoms of phosphorus.	(2mks)		
	••••				
	••••				
	••••				
	••••				
15.	Stat	e <b>four</b> characteristics of nitrogenous fertilizers.	(2mks)		

16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)
16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)
16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)
16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)
16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)
16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)
16.	6. State <b>four</b> reasons why a nursery is important in crop production.	(2mks)

## **SECTION B (20 MARKS)**

18. The table below shows output of maize in response to increase in D.A.P fertilizers on one hectare of land.

Fixed input land	Variable input	Total product	Average product	Marginal product
(in ha)	D.A.P in 30kg-bag	maize yield in 90-	(AP) maize in	(M.P) in 90kg bag
		kg bag	90kg bag	
1	0	2	-	-
1	1	5	-	-
1	2	14	-	-
1	3	21	-	-
1	4	26	-	-

a) Fill in the table for average product (A.P) and marginal products (M.P) (5mks)

19. The diagrams below illustrate irish potato seed preparation before planting. Study it carefully and answer the questions that follow.





a)	Name the practice used in preparing the seed potato above before planting.	(1mk)		
b)	Describe the procedure followed in preparing the seed potatoes for planting.	(3mks)		
c)	Give <b>one</b> reason for carrying out the practice named above.	(1mk)		
	e photograph below shows an irish potato plant attacked by a disease. Study it and the follow.			
a)	Identify the disease represented by the photograph.	(1mk)		
b)	Name the causative agent of the diseases.	(1mk)		
c)	Give <b>one</b> other crop that can be attacked by the same disease.	(1mk)		
d)	List <b>two</b> control measures of the disease.	(2mks)		
	e photographs below show common weeds C and D in pasture land. Study them questions that follow.			



C D

a)	Identify weeds C and D.		(2mks)
u)	•	D	, ,
b)			
b)	•		(1mk)
c)	v	osed by each of the weeds above in pasture land.	(2mks)
	C		
	D		
	SECTION C (40MARK	S)	
19. a)	State <b>four</b> benefits of sowi	ng annual crops early.	(4mks)
b)	Describe eight effects of fr	ragmentation and sub division of land.	(8mks)
c)	Explain <b>eight</b> effects of we	eds.	(8mks)
20. a)	Describe the various field i	management practices for tomatoes.	(8mks)
b)	State the precautions that s	hould be observed when harvesting cotton.	(4mks)
c)	Explain <b>four</b> importance of	crop rotation.	(8mks)
24. Tł	he information below is o	n the financial and Asset valuation of school Far	m at the end of the year
2002			
	Debts Payable	80,000/=	
	Dairy cattle	55,000/=	
	Maize in store	19,000/=	
	Buildings	125,000/=	
	Beans in store	4,000/=	
	Calves	5,000/=	

	]	Matur	e sł	пеер				7,0	00/=								
	!	50 ha	of la	and				260	,000	/=							
	]	Machi	iner	У				180	,000,	/=							
	(	Cattle	fee	d in store	e			4,0	00/=								
	(	Office	Equ	uipment				1,4	00/=								
	,	Tools	in s	tore				10,0	000/	=							
	]	Bank	Dep	osit				50,0	000/	=							
	]	Debts	rec	eivable				11,	,000,	/=							
	]	KFA L	oan،	l				210	0,000	/=							
	]	Bank	Loa	n				100	0,000	/=							
	1	Wage	S					41,	200/	=							
	]	Electr	icit	y Bills				100	500,	/							
a)	Drav	v up	a	balance	sheet	for	the	farm	as	at	31 <sup>st</sup>	Dec.	2002	using	the	above	information.
(12	2mks)	)															
b)	Dete	ermin	e th	e solven	cy of th	e far	m, gi	ving r	easoi	ns.				(1)	mk)		
c)	Desci	ribe se	even	reasons	why fai	rmers	need	d to ke	ep go	od	farm	record	s.		(7n	nks)	
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## 443/1

## **AGRICULTURE**

## PAPER 1

Time: 2 hours

# **KCSE 2023 TOP PREDICTION MASTER CYCLE 7**

NAME	INDEX NUMBER
CANDIDATE'S SIGNITURE	DATE
INSTRUCTIONS TO CANDIDATES	
(a). Write your name and index number in the space	s provided.
(b) Sign and write the date of the examination in th	e spaces provided above.
(c). This paper consists of three sections; A, B and C	
(d) Answer all the questions in section A and B	
( e) Answer any two questions in section C	
(f) All the answers should be written in the spaces provid	led.
<ul><li>(g) Candidates should check the questions papers to asce indicated and that no questions are missing.</li></ul>	ertain that all the pages are printed as

Section	Question	Maximum score	Candidate's score
Α	1-11	30	
В	12-15	20	
С		20	
		20	
	TOTAL	90	

(h) Candidate should answer all questions in English.

### SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.1, State four factors determining farming systems

2. State four advantages of extensive farming system.

4(a) Name three physical properties of the soil.

b) State three importance of soil structure on production.

3. State four importance of optimum temperature in crop production.

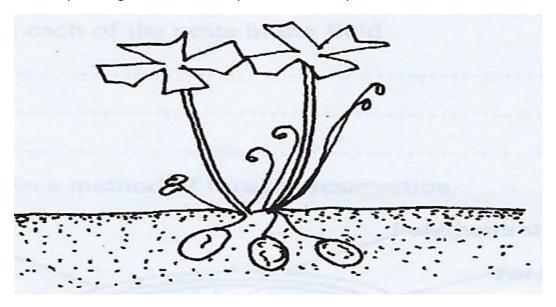
( 2 marks )
( 2 marks )
( 2 marks )
( 1 ½ marks)
( 1 ½ marks)

c) State four reasons why burning of vegetation as a method of land clearing is discouraged	
5(a) State three factors influencing depth of cultivation.	
b)i) What do you understand by the term sub-soiling.	( ½ marks)
ii) State two reasons for sub-soiling	( 1 mark )
6. State four features of a productive soil.	( 2 marks )
7(a) State two deficiency symptoms of iron in crop production.	( 1 mark )
b) Name two roles played by iron in crop production.	( 1 mark )

8. State four advantages of using inorganic fertilize	ers over organic fertilizers.	( 2 marks )
9(a) Name four sites to avoid when carrying out so	l sampling.	( 2 marks )
b) State four advantages of using vegetative mater	als for planting.	( 2 marks )
10. Complete the table below		( 2 marks )
Plant part used for vegetative propagation material	Crop plant	
1.Splits		
2.Bulbils		
3. Suckers		
4.Crowns		
11. (i) State four advantages of using certified seed	s in crop production.	( 2 marks )
		• • • • • • • • • • • • • • • • • • • •

SECTION B	( 20 marks )		

12. Study the diagram below carefully and answer the questions that follows.

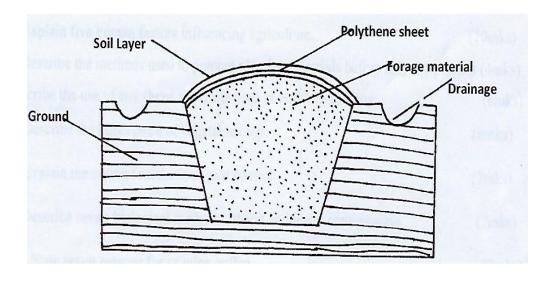


(a)Identify the weed above.	( 1 mark )
b) State two factors which contributes to the competitive ability of the above weed.	
c) State two harmful affects of the weed named in (a) above.	( 2 marks )
d) Name one basis in which weed above is classified	( 1 mark )
	,

13. Two maize pests are shown in the diagram below. Study them and answer the questions that follow.



a) Identify the pests in the diagrams labelled X and Y.	( 2 marks )
b).At what stage of maize production does each pest damage the crop.	( 2 marks )
c). Give two ways of controlling each of the pests in the field.	( 2 marks )
14. (a) The diagram below shows a method of forage preservation.	(1 mark )



a.), Identify the structure above.	( 1 mark )
(b). State the form in which the forage is preserved as illustrated above.	( 1 mark )
(c), Name two other method of forage preservation apart from above.	( 2 marks )
15.(i) Define the following terms as used in agroforestry	
a) coppicing	( 1 mark )
b).Pollarding	( 1 mark )
ii). Name any two forms of agroforestry	( 2 marks )
***************************************	

#### **SECTION C. 40 MARKS**

Answer any two questions from this section in the spaces provided after question 15.

16a) Explain five human factors influencing agriculture.	( 10 marks )
b). Describe the methods used to prepare planting materials before they are planted.	(4 marks)
c) Describe the use of any three materials used in budding/grafting.	( 6 marks )
17a) Describe the importance of vegetable crop.	( 6 marks )
(b).Explain the cultural methods of pest control.	(7 marks)
(c). Describe seven biological methods of soil and water conservation.	( 7 marks )
18(a) State seven reasons for pruning coffee .	(7 marks)
(b) Highlight seven effects of land fragmentation	( 7 marks )
( c )Explain the basic concepts of economics.	(6 marks)

#### 443/1

#### **AGRICULTURE**

### PAPER 1

Time: 2 hours

# **KCSE 2023 TOP PREDICTION MASTER CYCLE 8**

Name: ...... Index No: .....

Strea	m:Date:Date:
Instru	ctions to candidates
a)	Write your name and index number in the spaces provided above.
<i>b)</i>	Sign and write the date of the examination in the spaces provided above.
c)	The paper consists of three sections A, B and C.
d)	Answer all questions in section A and B
e)	All answers should be written in the spaces provided.
Ð	This paper consists of 12 printed pages

h) Candidates must answer the questions in English

and that no questions are missing.

#### For Examiner's Use Only

g) Candidates should check the question paper to ascertain that all the pages are printed as indicated

Section	Question	Maximum Score	Candidate's Score
A	1-18	30	
В	19-23	20	
C		20	
		20	
TOTAL	SCORE	90	

# **SECTION A:** (30 marks)

## Answer all questions in this section in the spaces provided

1.	State <b>four</b> advantages of mixed farming to the farmer	(2 marks)
2.	State <b>two</b> reasons for forage conservation	(1 mark)
3.	Give <b>four</b> reasons for using certified seeds for planting	(2 marks)
4.	State <b>four</b> activities carried out by young farmer's club in Kenya	(2 marks)
5.	Give <b>two</b> benefits of possessing title deed to a farmer	(1 mark)
6.	State <b>four</b> ways of classifying crop pest	(2 marks)
7.	State <b>four</b> observable indicators of economic development of a Nation.	(2 marks)

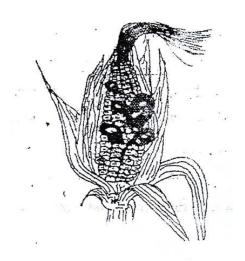
8.	State <b>two</b> effects of HIV /AIDS on agricultural production.	(1 mark)
9.	State <b>four</b> factors which may affect the quality of Hay.	(2 marks)
10.	State <b>four</b> reasons why burning is discouraged as a method of land clearance.	(2 marks)
11.	Give <b>two</b> forms in which nitrogen is absorbed by crops from the soil.	(1 mark)
12.	State <b>four</b> factors that determine the stage at which crop is harvested (2mks)	
13.	Name <b>two</b> types of non-competitive markets	(1 mark)
14.	State <b>four</b> agricultural activities that may pollute water	(2 marks)
15.	Name <b>four</b> appropriate sites for Agroforestry trees.	(2 marks)

16. State <b>four</b> characteristics of good seedling for transplanting	(2 marks)
17. State <b>four</b> financial documents kept by a poultry farmer.	(2 marks)
18. Name any <b>two</b> types of labour records.	(1 mark)

**SECTION B:** (20 marks)

Answer all question in this section in the space provided

19. below is a diagram showing a crop disease



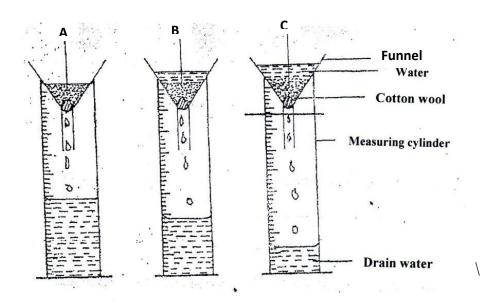
a.	Identify the crop disease	(1 mark)
b.	State <b>three</b> control measures for the crop disease	(3 marks)
c.	Name the category in which the disease is classified	(1 mark)
20	. The following illustration show different production function curves in agricultural	l economics. Stud
	them and answer the questions that follows	
	$ \begin{array}{c} A \\ C \\ C \end{array} $	
a.	Identify the production function curves labeled A and B	(2 marks)
	A	
b.	B	(1 mark)
c.	i. Which one of the three production function curves is rare in agriculture.	(1 mark)
	ii. Give reason for your answer in (i) above	(1 mark)

21. The following is a farm record Mrs. Sanda had kept as at 30<sup>th</sup> June 2006. Study it carefully and answer the questions that follow

Cash in hand	20,000
Cash at bank	66,000
Buildings	50,000
Disc plough	16,000
Debtors	16,000
Working tools	12,000
Bank overdraft	24,000
Creditors	20,000
Loan	50,000
Cattle	40,000
land	80,000

Prepare the balance sheet from the above information for Mrs Sanda's farm (5mks)

22. The diagram below illustrates an experiment on soil. Study it carefully and answer the questions that follow



a. State the aim of the experiment (1 mark)

sample	es labeled	
	A:	(1 mark)
	B:	(1 mark)
b.	State <b>two</b> ways in which the soil structure of the sample labeled C above can be i	mproved (2 marks)
23	. The diagram below illustrates common weeds in arable land, study them carefull questions that follow.	y and answer the
	D D	
a.	Identify the weed labeled	
	C	(1 mark)
	D	(1 mark)
b.	Classify the weed labeled C according to plant morphology.	(1 mark)
c.	Explain the reason why it is difficult to control the weed labeled D.	(2 marks)

If the volume of water illustrated in the measuring cylinder was observed after one hour, identify the soil

# SECTION C (40 marks)

## Answer any TWO questions from this section

24. a. Describe seven problems of marketing of agricultural produce	(7 marks)
b. State <b>five</b> importance of crop rotation	(5 marks)
c. Describe cultural pest control	(8 marks)
25. a. Describe <b>eigh</b> t factors that contribute to competitive ability of weeds.	(8 marks)
b. Describe the harvesting of coffee	(5 marks)
c. Describe production of onion under the following sub-heading	
i. Seedbed preparation	(3 marks)
ii. Field management practices	(4 marks)
26. a. Give <b>five</b> reasons why land consolidation should be encouraged in Kenya	(5 marks)
b. Discuss <b>seven</b> ways by which the government of Kenya can improve on maize p	roduction to
ensure food security in the country	(7 marks)
c. Discuss four farming practices that may destroy soil structure.	(8 marks)
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#### 443/1

## **AGRICULTURE**

## PAPER 1

Time: 2 hours

# **KCSE 2023 TOP PREDICTION MASTER CYCLE 9**

Name	Index Number
Candidate's Signature	Date

#### INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- The paper consists of **three** sections A, B and C.
- Answer all questions in section A and B in the spaces provided
- Answer any two questions from section C on foolscaps provided FOR EXAMINER'S USE ONLY

Section	Question	Maximum score	Candidate's score
A	1–17	30	
В	18 19 20 21 22 23	20	
С	24-26	40	
	TOTAL	90	

#### **SECTION A (30 MARKS)**

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

1.	Defin	ne organic farming	(1mark)
	• • • • •		
			•••••
2.	List 7	ΓHREE soil constituents	(1 ½ mark)
			•••••
3.	Give	FOUR benefits of crop rotation	(1mark)
	•••••		
	•••••		
4.	State	TWO disadvantages of using hydram pumps in pumping water in the farm	(1mark)
			` ′
5.	List I	FOUR benefits of land consolidation in farming	(2marks)
	•••••		
	•••••		
	•••••		•••••••••
6.	Name	e a crop weed that is:	•••••••••
·		-	4
	(i)	Parasitic to maize crop	$(^1/_2 \text{ mark})$
	(ii)	Alternate host for rusts	$(^1/_2 \text{ mark})$
	(iii)	Aquatic	$(^{1}/_{2} \text{ mark})$

	(iv)	Has medicinal value	$(^{1}/_{2} \text{ mark})$
7.	State	THREE ways in which nitrogen is lost from the soil	(1½ marks)
	•••••		
	•••••		
8.	State	FOUR benefits of mulching in soil and water conservation	(2marks)
	•••••		
	•••••		
	•••••		
9.	Give	FOUR disadvantages of using organic manures in crop production	(2marks)
10.	(i)	Define opportunity cost	(1mark)
	•••••		
	(ii)	Name Two types of inventory records kept by farmers	(1mark)
11.	(a)	Give TWO importance of sub-soiling	(1mark)

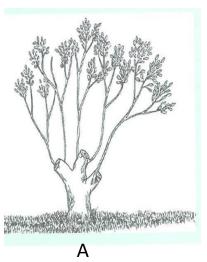
12.	Give THREE ways in which nutrients can be lost from silage in a silo	(1½ mark)
13.	(i) Give TWO destructive effects of moles in crop production	(1mark)
	(c) Control of State and Contr	(=====)
	(ii) Apart from moles, name TWO other rodent pests	(1mark)
14.	Give THREE characteristics of fixed inputs	(1½ marks)
	•	,
15.	List FOUR financial documents kept by farmers	(2marks)
13.	List I OOK Intalicial documents kept by farmers	(Zmarks)
16	State FOLID field mosts that attach mairs	(2
16.	State FOUR field pests that attach maize	(2marks)

17.	Differentiate between apiculture and aquaculture as used in Agriculture	(1mark)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
18.	State TWO ways in which burning leads to loss of soil fertility	(1mark)
19.	State TWO benefits of hardening off seedlings before transplanting	(1mark)

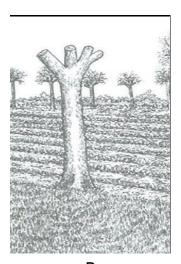
#### SECTION B (20 MARKS)

# Answer all questions in this section.

20. Study the diagram below and answer the questions that follow



21



a) Identify the three harvesting methods shown in the diagrams above.	(2marks)
b) Name four sites for agroforestry trees in the farm.	(2marks)
The document below was obtained from one of the books of accounts in kimko's farm. S document and answer the questions that follow	

	DAIRY CATTLE							
DR								CR
Date	Particulars	Folio	Amount Sh cts.	Date 2003	Particulars	Folio	Amount Sh cts.	

Feb 30 <sup>th</sup>	of dairy meal					
	ify the book fro	om which the above doc		ined.	(1mark	:)
b) State	-	ce of keeping proper far			(2mark	
						· · · · · · · · · · · · · · · · · · ·
	gram below sho	ows pests that affect cro	pps when in the	field. Study the	diagrams and answe	er the
		K			Stem	
a) Identi	ify the pest J, K	X and L.			(3mark	.s)
						· • • • • • • • • • • • • • • • • • • •
b) State	two ways of co	ontrolling the pest label			(2mark	.s)
c) State		ked by the pest labeled J	J and K above.		(2mark	

Feb 20th

22

Bought 2 bags

18,000.00

Feb 10<sup>th</sup>

Sold 2 heifers

12,000.00

The Following weeds were found growing on a maize farm by a form four student. Study the weeds and 23. answer the questions that follow. Z a) Name the weeds labeled X, Y and Z above. (3marks) b) State one reason that makes each of the following weeds difficult to control. (2marks) (i) X

(ii) Z		
		•••••
c) State one reason wh	y the weed labeled M should not be allowed	to grow in the farm. (1mark)
-,	y	<i>g</i>
•••••		
•••••	••••••	
	SECTION C (40 MARKS)	
Answer	any two questions from this section in the s	spaces provided
<b>24.</b> (i) Describe the field p	production of irrigated rice under the following	ng sub-headings:
(a) Field preparation.		(6marks)
(b) Water control		(3marks)
(c) Field management		(5marks)
(ii) Describe the precautio	ns taken while harvesting:	
(a) Pyrethrum		(3marks)
(b) Tea		(3marks)
<b>25.</b> (a) Name <b>two</b> types o	f inventory records in the farm.	(1mark)
(b) Explain <u>six</u> importance	e of farm budgeting.	(6marks)
(c) The inventory for Ma	ma Joan's farm as at 01.06.2011	
	Kshs.	
Cash at hand	5,000	
Broilers	30,000	
Maize in store	7,000	
Calves	15,000	
Dairy cattle	120,000	
Buildings	75,000	
Machinery	95,000	

	Land	200,000	
	On the same day, the following info	ormation was obtained from the farmers reco	ords
		Kshs.	
	Interest payable	2,000	
	Cash in the bank	20,000	
	Taxes payable	750	
	Wages payable	5,600	
	Bank loan	213,000	
	Egg sales on credit	10,000	
	Milk sales on credit	13,000	
	Farm inputs purchased on credit	19,800	
	Vegetable sales on credit	5,000	
	Required: Prepare a balance sheet	for the farm.	(13mks)
26	(a) Outline the process of treating v	water for domestic use using chemical treatn	nent
	system.		(12mks)
(b	) Explain <b>five</b> physical factors that in	ncreases the rate of soil erosion in a farm.	(5mks)
(c)	Explain how monoculture leads to 1	loss of soil nutrients.	(3mks)
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# 443/1 AGRICULTURE PAPER 1

# Time: 2 hours

# **KCSE 2023 TOP PREDICTION MASTER CYCLE 10**

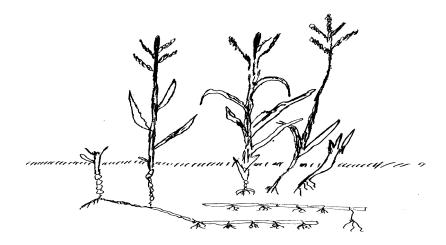
NAMEADM NOCLAS	SS
SECTION A ANSWER ALL QUESTIONS 30MARKS	
1.Define organic farming	(1mk)
2.State <b>Four</b> reasons why agriculture is regarded as a science.	(2mks)
3. Give <b>four</b> effects of HIV/Aids on agricultural production and development.	(2mks)
4.a) State <b>two</b> farming practices that help in reducing the effects of water shor	tage in crop
production	(2mks)
b) Give <b>four</b> advantages of rotational grazing in cattle farming.	(2mks)
5.State <b>two</b> disadvantages of small scale farming.	(1mk)

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6. State <b>four</b> ways of treating water for use in the farm.	(2mks)
7.State <b>four</b> benefits of using organic materials for mulching.	(2mks)
8.State <b>four</b> disadvantages of non-capped multiple stem pruning in coffee.	(2mks)
10.State <b>four</b> factors considered in selecting the site for making compost manure.	(2mks)
11. Give <b>two</b> reasons for flooding in the growing of paddy rice.	(1mk)
12.Give <b>two</b> appropriate situations under which foliar spraying is most suitable.	(1mk)

13.State <b>four</b> factors contributing to the competitive ability of weeds	(2mks)
14. Give <b>four</b> conditions of land which may make it necessary to carry out reclamation	practices (2mks)
15.Name <b>two</b> physical weathering agents in the soil formation process	(1mk)
16.State <b>two</b> Mechanical methods of separating soil particles according to size during s analysis	(1mk)
17.State <b>four</b> functions of Boron in crop development	(2mks)
18.State <b>four</b> factors that should be considered when classifying crop pests (2)	2 mks)

### SECTION B 20 MARKS ANSWER ALL QUESTIONS IN THIS SECTION

19. The diagram below shows a weed study it carefully.



(a)	<b>Identify</b> the weed.	(Imk)
(b)	State two economic importance of the weed.	(2mks)
(c)	<b>Why</b> is it difficult to control the weed?	(1mk)

20. The diagrams below labeled A and B illustrate field pests. Study the diagrams carefully and answer the questions that follow.



	711
a) Identify the field pests illustrated in the diagrams A and I	B. (2mks)
A	
В	
b) Classify the pests A and B	(2mks)
Α	

c) State ONE control measure of pest B	(1mk)
21. Below is a diagram of a nursery for raising the seedlings.	
(a) State two advantages of having the part labeled J	(2mks)
22.The diagram F, below illustrates a method of training in crops.	
Anna Cooper	

iii) State two advantages of training in crop production.	(2mks)
iv) List <b>two</b> crops that require training.	(1mk)
SECTION C 40 MARKS ANSWER ANY TWO QUESTION	
23a) i) Define the term land tenure	(2mks)
ii) Give three benefits of a Title deed to a farmer.	(3mks)
iii) State five effects of land fragmentation in crop farming.	(5mks)
b) Describe the production of onions under the following sub-headings:	
i) Seedbed preparation.	(3mks)
ii) Field management practices.	(5mks)
iii) Harvesting.	(2mks)
24a) Describe <b>seven</b> harmful effects of crop pests.	(7mks)
b) Describe <b>eight</b> safety measures a farmer should observe when using herb weeds.	oicides to control (8mks)
c) Describe the harvesting of cotton.	(5mks)
25.a) Describe the importance of vegetable crop.	(6mks)
b) Explain the cultural methods of pest control.	(7mks)
c) <b>Discuss</b> the management practices in the production of maize grains to	from planting to
harvesting.	(7mks)


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