KCSE FINAL PREDICTION

AGRICULTURE

(KCSE PREDICTIONS 1-10)

An Exclusive Top-Notch KCSE Model Prediction Questions.

A special preview of Possible Expected sample KCSE Questions Most likely to be Tested in the Forthcoming KNEC examinations.



Proudly prepared by an Exceptional team of Experienced Veteran KNEC examiners within the National Group of Mwalimu Agency.

For Marking Schemes/Answers

0746 222 000

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TRIAL 1 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

INSTRUCTIONS TO CANDIDATES.

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SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
С	40	

Answer ALL the Questions in this section

1) Give four advantages of	f large scale farming.	(2mks)
2) a) Define nomadic past	oralism	(1mk)
b) State two advantages	s of nomadic pastoralism.	(1mk)
3) State four factors which	n determine soil depth.	(2mks)
4) Give four natural factor	rs that would encourage the gully erosion on a farm.	(2mks)
5) State four ways in which	ch trees help in soil conservation.	(2mks)
6) State four disadvantage	es of communal land tenure system.	(2mks)
7) State four factors that s	hould be considered when selecting a forage crop specie	es to be
established in a given a	rea.	(2mks)
8) What do you understand	d by the following terms.	(3mks)
<i>a</i>) S	Seed dressing	
b) S	seed inoculation	
c) (Chitting	
9) Give two advantages of	compound fertilizers	(1mk)
10) State two effects of	varying spacing in maize production.	(2mks)
11) State four symptom	s of viral diseases in crop production.	(2mk)
12) List four branches of	f livestock farming.	(2mks)
13) Name four varieties	of dry beans	(2mks)
14) Give four precaution	ns taken to prevent pest attack in stored produce.	(2mks)
15) What is organic farm	ning?	(1mk)

SECTION B (20MKS)

16) Study the diagrams below carefully and answer the questions that follow.



KCSE FINAL	PREDICTIONS S1
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a) Identify the pests labelled A and B (2mks)

b) State two effects the pest labelled A causes on a maize plant. (2mks)

c) List three effects of pest B in stores.

(3mks)

d)State three methods of controlling striga weed.

(3mks)

17) The diagram below shows a field management practice carried out on a fruit crop. Study it carefully and answer the question that follow.



a) Identify the practice	(1mk)
b) Give two reasons for carrying out the above practice.	(2mks
c) State three reasons for storing beans after harvesting.	(3mks)
d) State three advantage of processing farm produce.	(3mks)
e) Define the term drainage.	(1mk)

SECTION C (40MKS)

Answer any two questions from this section

a)Describe eight farming activities that would encourage soil erosion		(8mks)
	b) Describe the harvesting of cotton.	(8mks)
c) Describe seedbed preparation for carrot production.	(4mks)

- a) Describe ten factors that would determine the nutrient content of hay. (10mks)b)Describe ten advantages of using organic matter for mulching. (10mks)
- 20) a)Explain six morphological features of weeds that influence selectivity of herbicides. (6mks)
 - b) Give five disadvantages of zero grazing system. (5mks)
 - c)Describe nine factors considered in the selection of planting materials. (9mks)

TRIAL 1 PAPER 2

443/2

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	SCORE	SCORE
A	30	
В	20	
С	40	

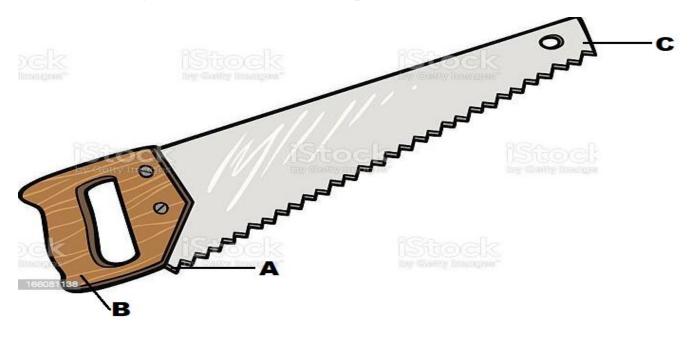
Answer ALL the Questions in this section

1) St	tate four causes of stress in poultry.	(2mks).
2) St	tate four factors that determine the amount of feed an animal consumes	(2mks)
3) St	tate four advantages of artificial calf feeding.	(2mks)
4) N	ame two methods of service in livestock breeding	(1mk)
5) N	ame two species of camel.	(1mk)
6) St	tate four functions of vitamins in livestock body	(2mks)
7) D	efine the following terms (a) Cockerel- (b) Broiler- (c) Ewe-	(2mks)
	(d) Kid— ist two main parts of a farm building. tate two reasons why lubrication or greasing of farm machines is important Give two reasons for seasoning timber before it is used for construction. State the functional difference between a drenching gun and a bolus gun. Name four tools which a farmer uses for dehorning cattle.	(1mk). (1mk). (1mk). (1mk). (2mks)
13) 14)	List two reasons why bees are fed with syrup Differentiate between inbreeding and outbreeding	(1mk) (1mk)
15) 16) 17)	Identify four abnormalities which can be identified in eggs through candlin Name two dual purpose breeds of sheep State four factors which influences the rate of respiration in farm animals	g (2mks) (1mk) (2mks)
18) 19)	Mention four preventive measures farmers uses to control diseases in anima State four harmful effects of lice in sheep.	als(2mk) (2mks)
20)	Name two examples of two host ticks.	(1mks)

SECTION B (20MKS)

Answer all the questions in this section.

21) Study the diagram below and answer the questions that follows.



Identify the tool. (1mk)

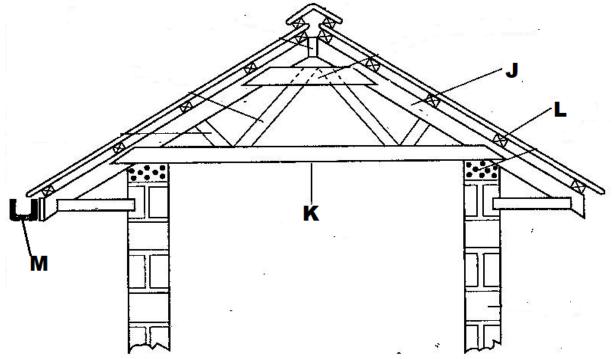
Name the parts labelled A,B,C

(3mks).

State two maintenance practices of the tool above

(2mks)

- 22) Using Pearson's square method, **compute** a 200 kg ration with 20% DCP from oats which contains 10% DCP and sim sim seedcake containing 60% DCP (3mks)
- 23) Study the illustration below and answer the questions that follow.



Identify the parts labeled

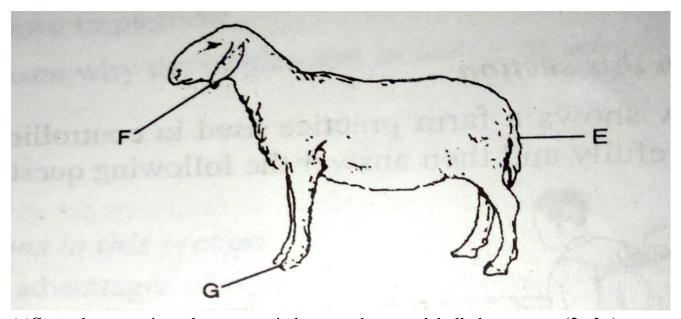
(2mks).

(a) J	
(b) K	
(c) L	
` /	

State **one** use of the part labelled L.

(1mk).

- (c) State **one** reason why it is important to have the structure labelled M at the edge of the roofing materials. (1mk).
- **24**) Below is an illustration of a sheep with parts marked E, F and G.



(a) State the	operations that are carried out on the parts labelled	(2mks).
i.	E	
••		

- (b)State **two** reasons for carrying out the operation identified in E (2mks)
- (c) At **what** age should the operation stated in E be carried out. (1mk).
- (d). State **two** methods of carrying out the operation named in E. (2mks)

SECTION C (40MKS)

Answer any two questions from this section

25) (a). Give **nine** reasons why the battery cage system of rearing poultry is popular for used by large scale poultry farmers. (9mks)

Describe **five** management practices carried out on a fish pond. (5mks)

Describe six symptoms observed on a calf heavily infested with internal parasites(6mk)

26) (a)State six advantages of animal power over tractor power in see	edbed preparation.
	(6mks)
(b)Explain nine factors to consider in siting farm structures	(9mks)
(c)State five importance's of farm buildings.	
27) (a).Name two causes of pneumonia in livestock.	(2mks)
(b)State four predisposing factors of pneumonia disease in livestock	\mathbf{k} (4mks)
(c). Describe four types of stores that can be found on a farm.	(8mks)
(d). State six differences between Petrol and diesel tractor engines.	(6mks)

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KCSE FINAL PREDICTIONS S1

TRIAL 2 PAPER 1

443/1

Time: 2 Hours

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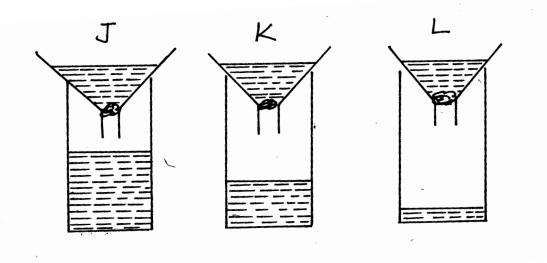
SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

Answer ALL the Questions in this section

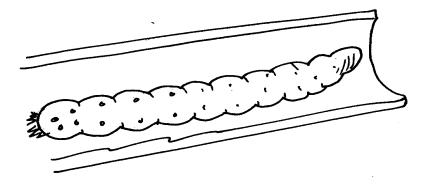
1. What is nomadic pastoralism as a method of farming?	$(^{1}/_{2})$
2. State two reasons why it is necessary to cultivate land before planting	(1mk)
3. Give two reasons why leguminous plants are preferred for green manure	(1mk)
4. State two methods of increasing soil PH	(1mk)
5. State two effects of pests in crop production	(1mk)
6. Give two forms in which nappier grass may be used to feed livestock	(1mk)
7. List three signs shown by crops when nitrogen is deficient in the soil	(1mk)
8. State four factors that determine the choice of an irrigation system to use in	a farm
	(2mks)
9. Give four advantages of using zero grazing system	(2mks)
10. State four factors considred in selection of planting materials	(2mks)
11. State four factors that determine the quality of grass hay	(2mks)
12. Give four roles of trees in soil and water conservation	(2mks)
13. State the importance of each of the following in a farm	(1mk)
a) Strip cup	
b) Ball pen hammer	
14. State two cultural weed control measures in maize plantation	(1mk)
15. Give four factors that determine the method of fertilizer application	(2mks)
16. Give four ways of harvesting water in the farm	(2mks)
17. State four advantages of crop rotation practice in a farm	(2mks)
18. State four factors that affects the efficiency of psetcides	(2mks)
19. Explain two ways monocropping leads to soil infertility	(2mks)
20. Name four farming practices farmers can use to achieve minimum tillage	(2mks)

SECTION B (20 MKS)

- **21.**A) A farmer in Kabondo was advised to apply 80 kg of nitrogen to his maize plantation during top dressing. The fertilizer available was calcium ammonium nitrate (20% N). Calculate the amount of this fertilizer in kilograms the farmer should purchase (2mks)
 - B. At what stage should the farmer top dress his maize crop
 - C. State three applications practices the farmer should consider to maximize the use of the fertilizer by the crop for top dressing (3mks)
- **22.**The diagram below illustration an investigation on property of soil using samples labeled J,K and L



- a.) If the level of water drained into the test tubes were observed after two hours,name the property of soil being investigated (1mk)
- **b.**) What is the relationship between this property of soil and the size of soil particles (1mk)
- c.) Which soil sample will be suitable for growing paddy rice? (1mk)
- d.) Name the type of soil labeled (2mks)
 - J.
 - L.
- **23.** The diagram above shows a pest in production of cereal crops ,use it to answer the question below.



- **a.** Identify the pest
- **b.** Give two damages caused by the pest identified in (a) above
- **c.** Give two control measures of the pest above (1mk)
- d. Give four reasons why pest control practices should be effectively implemented in a farm. (2mks)

SECTION C

KCSE FINAL PREDICTIONS S1	MWALIMU AGENC
24. A. Explain six cultural methods of controlling crop diseases B. Describe the effects of land fragmentation and subdivision	(12mks) (8mks)
25.a. Explain how five factors leads to loss of soil fertility b. Explain five ways by which farmers minimizes grain loses in state.	(10mks) ores (10mks)
 26.a. Explain three reasons for pruning coffee b. Discuss the production of kales under the following sub h Transplanting Weed control Pests and diseases 	(3mks) eadings (12mks)
c. State five factors that would influence soil erosion	(5mks)

TRIAL 2 PAPER 2

443/2

Time: 2 Hours

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В	20	
С	40	

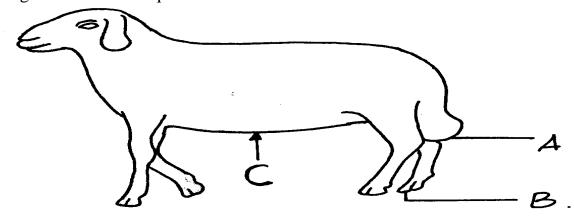
Answer ALL the Questions in this section

1.	Name three types of dairy goats reared in Kenya	$(1 \frac{1}{2})$
2.	a. What is raddling in sheep management	(1mk)
	b. Give two reasons for raddling in sheep management	(1mk)
3.	Give three advantages of contemporary comparison method in selection	of livestock
		$(1 \frac{1}{2})$
4.	State four advantages of animal power in the farm	(2mks)
5.	Give two qualities of a creep feed that make it suitable for piglets	(1mk)
6.	Give two reasons for spreading a polythene paper (PVC) on the slab of a	permanent
	farm building	(2mks)
7.	Name three types of Fresh warm water fish reared in Kenya	$(1 \frac{1}{2} \text{ mks})$
8.	a) Give three disadvantages of inbreeding in cattle production	$(1^{1}/_{2}mks)$
	b). Give three ad vantages of embryo transplant in cattle	$(1^1/2mks)$
9.	Give two factors inhibiting milk let-down	(1mk)
10	.a. Differentiate between "Flushing "and "Steaming up" in livestock ma	nagement
		(2mks)
	b. Give three characteristics of succulent roughage	$(1^1/2mks)$
11	.State two characteristics of a air cooled engines	(1mk)
12	.Give four characteristics of a good vaccine	(2mks)
13	.State five factors that necessitate culling of a dairy cow	$(2^1/2mks)$
14	.Give two reasons why the afterbirth is removed immediately the sow far	rows (1mk)
15	Give two reasons why bees swarm	(1mk)
16	List three chemical methods of treating timber	(2mks)
17	Give four importance of farm buildings	(1mk)
18	State two control measures of controlling fleas in a flock of layers	(1mk

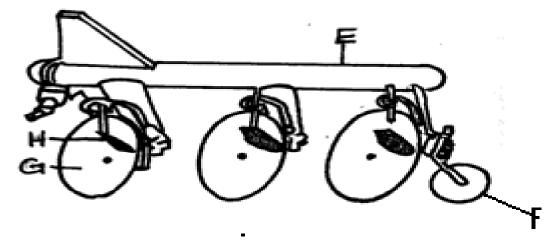
SECTION B (20 MARKS)

Answer all question s in the spaces provided

19.Below is an illustration of a sheep with some parts labeled A,B and C.Study the diagram and answer questions that follows?



- a. State the practices carried out on the part labeled A,B and C
 b. State two reasons for carrying our the operation on the part labeled A. (1mk)
 c. Name one tool used for operation carried out on the part labeled B and C(1mk)
 B.
- 20. Study the illustration below and answer questions that follows



i) Identify the implement illustrated above

(1mk)

ii) Name the parts labeled E,F,G and H

- (2mks)
- *iii*) State three ways in which the depth of ploughing can be increased when using the implement above (3mks)
- **21.**The illustration below represents the digestive system of a poultry. Study and answer questions that follow.



KCSE FINAL PREDICTIONS S1

MWALIMU AGENCY

i)Name the parts Q,R and S

 $(1^{1}/_{2})$

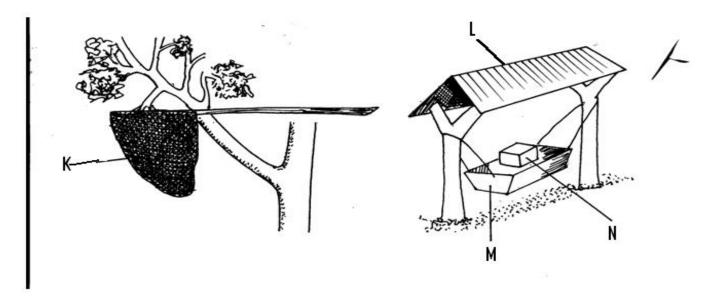
ii) State the functions of the part labeled Q and R

(2mks)

iii). Give two characteristics of the part labeled S that make it effective in it's function

(2mks)

22. Below is an illustration of a bee keeping structure



a.) Name the parts labeled K,L,N and M

(2mks)

b. Give two factors that affects quality of honey

(2mks)

c.Name two types of pests that affects bees

(1mk)

SECTION C 40 MARKS

Answer any two questions from this section

23.a. Describe the characteristics of eggs selected for incubation

(**5mks**)

b. Discuss five factors which affects the quality of honey

(5mks)

c. Describe the management of growers from the 9th week to the point of lay (10mks)

24.a. Outline ten function s of Rumen

(10mks)

b. Describe the digestion of grass in the rum en of an adult ruminant

(8mks)

c. . Describe two reasons why raddling is necessary in sheep management (2mks)

25. Describe the component parts of a plunge dip for cattle

(20mks)

TRIAL 3 PAPER 1

443/1

Time: 2 Hours

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SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

Answer ALL the Questions in this section

- 1) Agriculture is viewed as an Art and a Science. State **four** practice in the farm that makes Agriculture an Art. (2 marks)
- 2) State **four** ways in which a farmer can improve the structure of a water logged clay soil. (2 marks)
- 3) Despite efficient water supply to his tomatoes, Mr. Gikandi still noted wilting of some plants. Suggest **two** possible causes of this wilting. (1 mark)
- 4) Outline the stages undergone in the development of a gully. (2 marks)
- 5) (a) Explain why zone 2 in the zones of production is called a Rational Zone. (1 mark)
 - (b) Differentiate between a complete budget and a partial budget. (1 mark)
- 6) (a) State four deficiency symptoms that would be seen in crop lacking potassium.

(2 marks)

A farmer was advised to apply 150kg of CAN of maize. Calculate the amount of Nitrogen applied per Hectare if CAN contains 21%N. (1 mark)

7) List down three types of Nurseries.

 $(1\frac{1}{2} \text{ marks})$

- 8) State **four** achievements that can be made with high level of education and technology in agriculture. (2 marks)
- 9) Name four examples of liabilities in a balance sheet. (2 marks)
- **10)** State **four** ways in which a farmer can increase labour productivity in the farm.

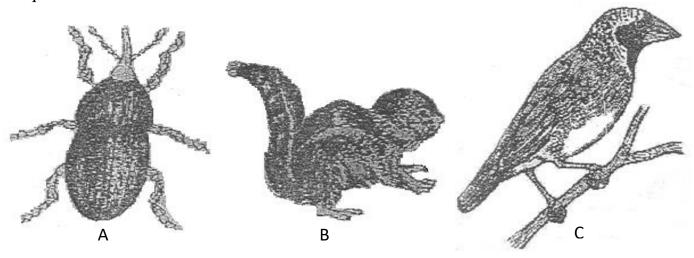
(2 marks)

- 11) Give four farming practices that may help in achieving minimum tillage. (4 marks)
- 12) State four reasons why timely weed control is advisable in cop production.(2 mks)
- 13) Give two forms of collective land tenure system in Kenya. (1 mark)
- 14) Define the term "Economic Injury Level" of a crop. (1 mark)
- 15) State three characteristics of shifting cultivation. (1½ marks)
- **16)** Name the disease that is characterized by mass of dark spores on the flowering part of maize.

SECTION B: (20 MARKS)

Answer all the questions in this section

17) Three maize pests are shown in the diagram below. Study them and answer the questions that follow.



(a) Identify the pests in the diagrams labeled A, B and C.

(2 marks)

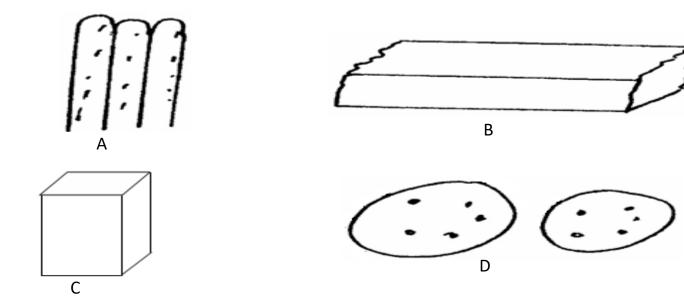
At what stage of maize production does pest A and B damage the crop? (2 marks)

- i. A
- ii. B

b. (c) Give **two** ways in which **C** causes loses in field crops.

(2 marks)

18) Study the following types of soil structures and answer the questions that follow.



(a) Identify the type of soil structure labeled.

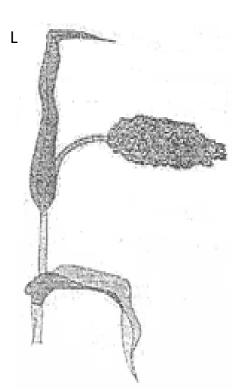
(2 marks)

- i. A
- ii. B
- iii. C
- iv. D
- **(b)** Which type of soil structure is best suited for farming.

(1 mark)

Identify **four** characteristics which make the soil structure named in (b) above suitable for farming. (2 marks)

19) The diagram below shows panicles of two sorghum varieties. Study the diagrams and answer the questions that follow.





(a) Identify varieties L and M.

(2 marks)

Which of the two varieties of sorghum is less likely to be damaged by birds?(1 mark) (c)Give a reason for your answer in (b) above. (1 mark)

20) Differentiate between a Hybrid and a composite as applied in maize production.

(1 mark)

- 21) Why are the following weeds difficult to control?
 - a. Couch grass.

(1 mark)

b. Oxalis latifolia.

(1 mark)

c. Double thorn.

(1 mark)

SECTION C: (40 MARKS)

Answer any two questions in this section

22) (i) Explain **five** structural structures used to control soil erosion. (10 marks) State and explain **five** factors which may influence the spacing of crops.

(10 marks)

23) (a)Describe ten cultural methods used in controlling crops pests. (10 marks)

Describe production of paddy rice under the following sub headings:

i. Land preparation. (3 marks)

ii. Water control. (3 marks)

iii. Role of irrigation water. (3 marks)

iv. Sighs of maturity. (1 mark)

24) Using the data below answer the questions that follow.

Fertilizer input (Bags)	Maize output (Bags)	Total Revenue Kshs.	Total Cost Kshs.	Marginal Revenue Kshs.	Marginal Cost Kshs.	Net Revenue Kshs.
0	0	0	0	0	0	0
2	14	28000	5600	1	-	-
4	39	78000	11200	-	-	
6	61	122000	16800	ı	-	-
8	78	156000	22400	1	-	-
10	87	174000	28000	-	-	-
12	88	176000	23600	-		

Work out the Marginal revenue, Marginal cost and Net revenue at all levels of production and complete the table. (7 marks)

(b) On the graph paper provided, draw a graph of output against input. (4 marks)

(c) From the graph, work out the maize output at the input levels 3 and 9. (2 marks)

(d)State the level of input where maximum profit is realized and give a reason.(2 marks)

(e) What is elasticity of demand? (Ed) (1 mark)

(f)Enumerate the factors that determine the elasticity of demand. (4 marks)

TRIAL 3 PAPER 2

443/2

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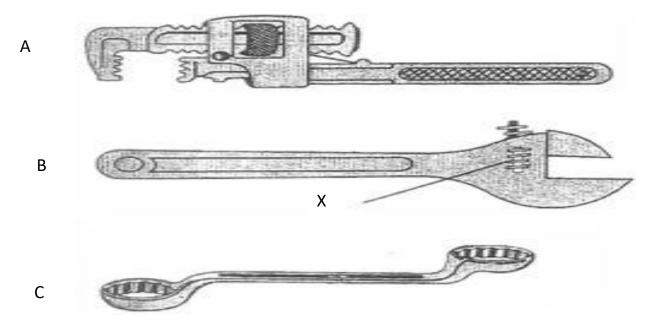
Answer ALL the Questions in this section

1) State the major physical difference between a Landrace and a Large White Pig.			
		(2 marks)	
2) (a) Name two livestock diseases that are controlled through use of sa	ame vaccine.	
		(2 marks)	
(b) Name the vaccine as in 2 (a) above.	(½ mark)	
3) 1	Name two diseases that attack bees.	(2 marks)	
4) 5	State two distinguishing external characteristics of Californian Whit	e Rabbit.	
		(2 marks)	
5) S	State the functions of the following hormones in livestock.		
(a) Oxytocin.	(1 mark)	
(b) Stilboesterol.	(1 mark)	
6) 1	Name four species of fresh water fish reared in Kenya.	(2 marks)	
7) (Give three methods of feeding colostrums to a Newly Born Calf.	(1½ marks)	
8) 5	State four advantages of using Kenya Top Bar Hive over Log Hive.	(2 marks)	
9) I	List four factors that would ensure clean milk production.	(2 marks)	
10)	State two reasons for clipping the Upper Beak in poultry manage	ement.(1 mark)	
11)	State two ways of preventing predation in a fish pond.	(2 marks)	
12)	Differentiate between crutching and ringing.	(1 mark)	
13)	Name two major physical differences between Dromedary and B	acterian Breeds of	
C	ramel.	(2 marks)	
14)	State four major Routes of Administering vaccines in a day old of	chick. (2 marks)	
15)	State four measures that prevent egg eating in poultry.	(2 marks)	
16)	Give four factors determining the amount of water taken by an animal.(2 marks)		
17)	List two factors considered in sorting and grading eggs for marke	et. (2 marks)	
18)	List any four predisposing factors of livestock diseases.	(2 marks)	
19)	(a)Define the term immunity as used in livestock health.	(1 mark)	
(b) List four causes of livestock diseases. (2 marks)			
20)	Name two structures used in the control of ticks.	(1 mark)	
21)	(a)State two possible causes of soft shelled eggs.	(1 mark)	
(b) State two qualities of good eggs for incubation. (1 mark)			

SECTION B: (20 MARKS)

Answer all questions in this section

22) The diagram below show some workshop tools. Study the diagrams and answer the questions that follow.



Identify tools labelled.

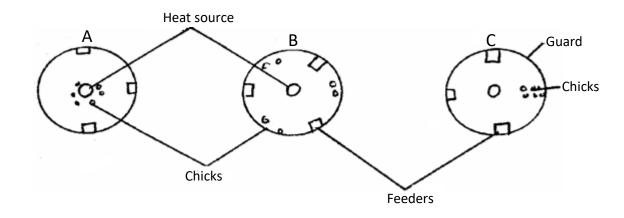
(3 marks)

- i. A
- ii. B
- iii. C
- (b) What functional advantage does the tool labelled **B** have over tool **C?** (1 mark)
- (c) State the function of the tool labelled A.

(1 mark)

(d) State the function of part X in the tool labelled B.

- (1 mark)
- 23) Below are diagrams illustrating the behaviour of chicks in various brooders. Study the diagrams and answer the questions that follow.



State the environment problem in each brooder as illustrated by the behaviour of the chicks. (3 marks)

i. A

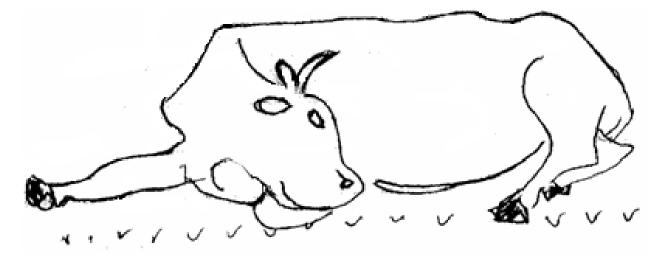
ii. B

iii. C

(b) State **one** way of solving the problem in B.

`(1 mark)

24) Study the illustration shown below and answer the questions that follow.

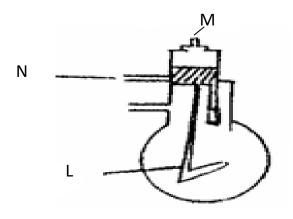


(a) Name the condition shown above.

(1 mark)

(b) What causes the condition shown in **24(a)** above?

- (1 mark)
- (c) Explain the treatment of the condition named in 24(a) above.
- (2 marks)
- 25) A farmer computed 100kg ration with 20% DCP from oats which contains 10% DCP and simsim seed cakes containing 60% DCP. Using the Pearson Square method, calculate the amount of each feedstuff in the ration. (5 marks)
- **26**) Below is a diagram of two stroke engine cylinder.



Name **one** farm machine where the above engine is used.

(1 mark)

SECTION C: (40 MARKS)

Answer any two questions in this section

- 27) (a) Describe the management practices that should be carried out on a sow and piglets during the furrowing period. (12 marks)
 - (b) Explain **five** reasons why a breeding boar may be culled. (5 marks)
 - (c) State **four** maintenance practices of forked jembe. (3 marks)
- 28) (a)Describe how the transmission system of a tractor transmits power that is developed in a cylinder to the wheels for motion. (15 marks)
 - (b) Describe **five** long term tractor services and maintenances. (5 marks)
- 29) (a)State six features of an ideal calf pen. (6 marks)
 - (b) Describe the uses of fences in the farm. (8 marks)
 - (c) State six factors considered when siting farm structures. (6 marks)

TRIAL 4 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

INSTRUCTIONS TO CANDIDATES.

- a) Write your name & Index Number in the spaces provided.
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- e) Answer two question from Section C.

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

Answer ALL the Questions in this section

- 1) State three characteristic of shifting cultivation. (1 1/2mks)
- 2) State any four factors that determine the spacing of a crop. (2mks)
- 3) State two conditions under which the opportunities cost is zero in a farming practice.

(11/₂mks)

- 4) Give two activities carried out during hardening off tomatoes seedling. (2mks)
- 5) State three benefits of minimum tillage in crop production . (1 1/2mks)
- 6) Differentiate between Olericulture and Pomoculture as used in crop production.(1mks)
- 7) 7. Name three negative effects of strong wind on Agriculture . (1 1/2mks)
- 8) Differentiate between hybrid and composite as used in crop production . (1mk)
- 9) Name three reasons for treating water in the farm. (1 1/2mks)
- 10) Outline four disadvantages of communal land tenure system. (2mks)
- 11) List three aspects of light that influence crop growth. (1 1/2mks)
- 12) List three reasons for conserving forage. (1 1/2mks)
- 13) Name four factors that influence soil erosion. (2mks)
- 14) What is integrated pest management. (1mk)
- 15) Name four types of water pumps which can be used in the farm. (2mks)
- State four factors that determine the stage at which a grain crop is ready for harvesting.(1 1/2mks)
- 17) Name four methods of farming. (2mks)
- 18) State two crop production practices that can be carried out to maintain optimum plant population. (1mk)
- 19) State four information contained in land title deed. (2mks)

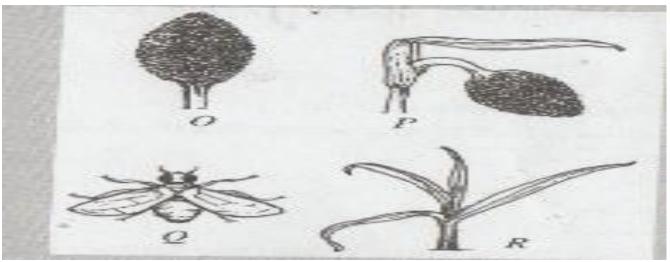
SECTION B (20 MARKS)

Answer all the questions in this section in the space provided.

20) A farmer has four plots P1,P2,P3,& P4 as shown in the table below.

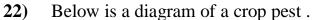
P1	P2	P3	P4
Infested with	Deficient in	Infested with	Prone to soil
Bacteria wilt	Nitrogen	witch	erosion
		grass(strigaspp)	

- a)A Farmer intends to grow Maize ,Irish potatoes ,beans and Rhodes grass .plan a rotation for the first year of the rotation system. (2mks)
- b)Account for the plan above . (4mks)
- 21) Study the illustration below and answer the question that follow.



a)Name the varieties which is resistant bird attack.
b)Give a reason for your answer in a above.
c)Identify pest Q which has attacked sorghum seedling labeled R.
(1mk)
(1mk)

d). State two methods that are used in controlling birds in a field of sorghum. (2mks)





Identify the pest in the diagram. (1mk)

Suggest two ways of controlling the pest. (2mks)

Name any two diseases of cabbages. (2mks)

Give three advantages of training in crops. (3mks)

SECTION C (40 MARKS

Answer any two questions in this section

23) a)Outline ten harmful effects of crop pestb)Statethe effect of land fragmentation(10mks)

24) Describe the production of tomatoes under the following sub heading:

Ecological requirement (3mks)
Land preparation (4mks)
Transplanting (4mks)
field management practices (3mks)
Outline six importance of crop rotation. (6mks)

a)outline ten safety precations when using Herbicides. (10mks)b)state and explain biotic factors that influence agriculture. (10mks)

TRIAL 4 PAPER 2

443/2

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

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SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

Answer ALL the Questions in this section

1) 1 Study the table below fill in the blanks to show the term used to refer to parturition and young ones of the following animals? (2mks)

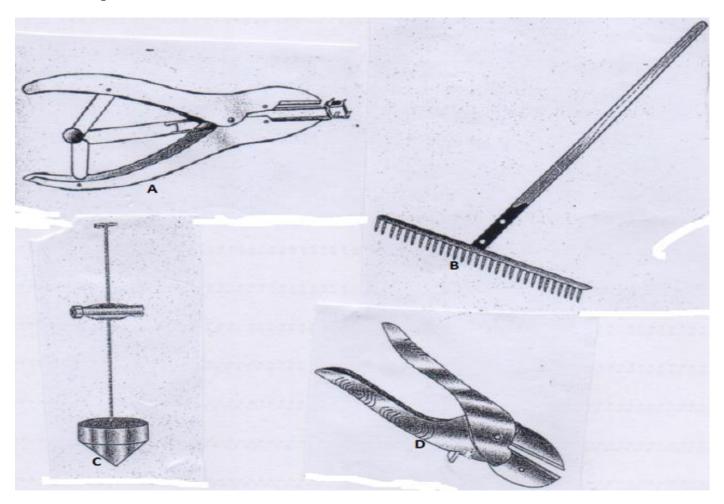
Type of animal	Act of parturition	Term to refer to the young one
Cattle	Calving	Calf
Goats		
	•••••	
pig		

2) N	ame two tools used to trim overgrown hooves in sheep.	(1mk)
3) N	ame three dual purpose breeds of sheep.	$(1 \frac{1}{2} \text{ mks})$
4) St	ate four symptoms of mastitis in cattle.	(2mks)
5) St	ate two functions of the queen bee in a bee colony.	(1mk)
6) St	ate four factors affecting the digestibility of a feed.	(2mks)
7) St	ate four harmful effects of ticks.	(2mks)
8) St	ate four conditions that may inhibit milk let-down during milking.	(2mks)
9) G	ive three disadvantages of using a plunge —dip for tick control.	$(1 \frac{1}{2} \text{ mks})$
10)	Name two viral diseases that affect each of the following livestock.	
	(a) Cattle	(1mk)
	(b) Poultry	(1mk)
11)	State four desirable factors to consider when siting a fish pond.	(2mks)
12)	Give three disadvantages of cross breeding in cattle.	$(1 \frac{1}{2} \text{ mks})$
13)	State four conditions that would encourage hens to eat eggs in poultry	production.
		(2mks)
14)	Outline four reasons for maintaining farm tools and equipment in good	d condition.
		(2mks)
15)	State four nonpathogenic causes of livestock diseases.	(2mks)
16)	In the preparation of artificial colostrum, what is the role of each of th	e following?
	(a) Caster oil	$(\frac{1}{2} \text{ mk})$
	(b) Cod liver oil	$(\frac{1}{2} \text{mk})$
17)	What is the importance of applying milking salve on teats of a lactating	ng cow?(½ mk)

SECTION B (20 Marks)

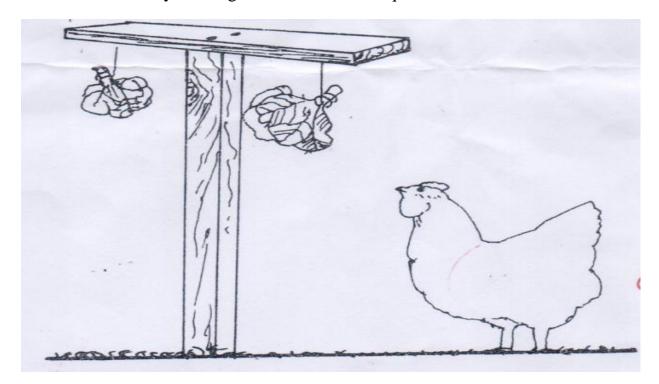
Answer all questions in this section in the spaces provided

18) 18 Below are illustrations of farm tools labeled **A,B,C** and **D**. Study them and answer questions that follow.



Give the correct name of each of the tools illustrated above.	(2mks)
How is each of the tools B and D maintained?	(1mk)
B	
(c) State one proper use of each of the tools A and C.	(2mks)
AC.	

19) The diagram below illustrates a method of providing feed stuff to chicken in a chicken house. Study the diagram and answer the questions that follow.

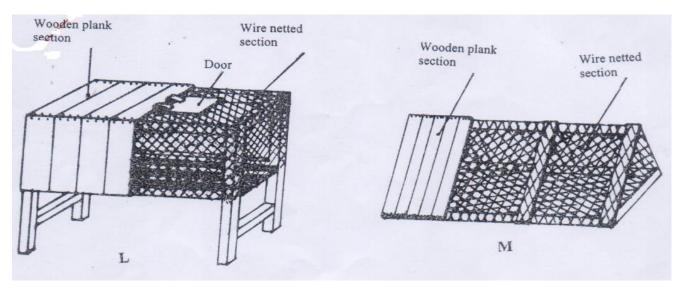


What type of feed stuff is illustrated in the diagram above? (1mk)
Give two reasons why the feed stuff should be suspended above the height of the chicken.
(2mks)

Apart from above practice, name one other practice that can be used in place of practice (ii) above. (1mk)

What other advantage of the practice named in (ii) in a deep litter house. (1mk)

20) The diagrams below illustrate two types of rabbit hutches labeled ${\bf L}$ and ${\bf M}$. Study the diagrams and answer questions that follow.



(1mk)

In which section of the hutches should the water and feed troughs be placed? (1mk)

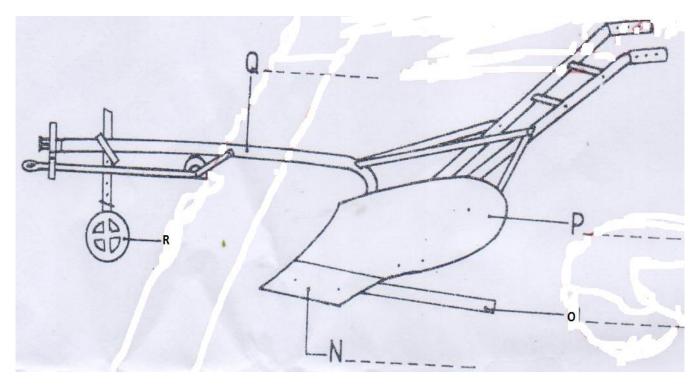
State one use of the wooden section of the hutch. (1mk)

What additional facility should be included inside the hutches for a doe? (1mk)

Identify the type of floor shown in hutch L above. (1mk)

21) Below is a diagram of an Ox-plough. Study it and answer questions that follow.

Give one advantage of the type of floor illustrated in hutch **L** above.



(a) Identify the parts labeled **N,O,P** and **Q** on the diagram above. (2mks)

State one maintenance practice that should be carried out in each of the parts labeled N and R.

i. N.....(1mk) ii. R.....(1mk)

(c) What adjustment should be carried out on the implement so as to reduce the depth of ploughing. (1mk)

SECTION C (40 Marks)

Answer any two questions from this section

22) (a) Describe the process of processing honey using heat method. (6mks)

Describe Foot and Mouth disease under the following sub- headings;

(a) Causal organism.	(1mk)
----------------------	-------

- (b) Animal attacked (1mk)
- (c) Five symptoms of attack. (5mks)
- (d) three control measures. (3mks)
- (c) Outline four ways through which power is made available from a tractor. (4mks)
- 23) (a) Explain six requirements of a good calf pen. (6mks)
 - (i) Give four reasons for steaming up a dairy cow. (4mks)
 - (ii) Explain the management practices carried out on a dairy calf from birth and immediately after birth. (4mks)
 - (c) Outline six signs of round worms (Ascaris spp) infestation in cattle. (6mks)
- 24) (a) Describe the process of egg formation in a chicken up to the point of lay.(10mk)
 - (b) State the difference between four stroke cycle and two stroke cycle engine. (4mks)
 - (c) Describe the process of digestion in the rumen. (4mks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 5 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO
SCHOOL	SIGN
DATE	

INSTRUCTIONS TO CANDIDATES.

- a) Write your name & Index Number in the spaces provided.
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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

SECTION A (30MKS)

Answer ALL the Questions in this section

1. List four environmental factors that affect crop distribution in a given area.	(2mks)
2. Mention two methods of storing water on a farm	(1mk)
3. Give one reason why too much air in the silo is undesirable in the process of	f making
silage.	(½mk)
4. State two advantages of a grass-legume pasture over a pure grass pasture	(1mk)
5. State two characteristics of a large scale farming system.	(1mk)
6. Give four reasons why farmers are encouraged to practice organic farming.	(2mks)
7. (a) What is meant by the term land reform?	(1/2mk)
(b) State four steps followed in land adjudication.	(2mks)
(c) Mention any four pieces of information contained in a land title deed.	(2mks)
8. State two ways how ridging controls soil erosion	(1mk)
9. List down two determinants of national income	(1mk)
10. State two possible causes of a hard pan.	(1mk)
11. Differentiate between chitting and seed inoculation.	(1mk)
12. Mention four management practices that are carried out on agro forestry tro	ees from
transplanting to maturity	(2mks)
13. Give four possible causes of seed dormancy.	(2mks)
14. State four reasons for planting cereals early in the planting season.	(2mks)
15. Give four functions of Young Farmers Clubs in Kenyan secondary schools	and
colleges. (2ml	ks)
16. Give one term used to explain a market condition where there is a:	
(i) Sole seller	(½mk)
(ii) Sole buyer	$(\frac{1}{2}mk)$
17. Distinguish between the terms hybrid and composite as used in maize breed	ding
	(1mk)
18. State two characteristics of green manure plants	(1mk)
19. Give four farming practices that may help in achieving minimum tillage	(2mks)
20. What is biological weed control	(1mk)

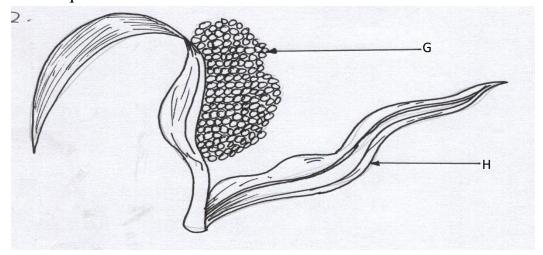
SECTION B (20MKS)

Answer ALL the questions in this section

21.(a) A farmer can combine dairy meal and home made feeds in order to obtain 40kg of milk from a lactating cow as shown in the table below.

Dairy meal(kg)	Home-made feed(kg)	Marginal rate of subsistitution
1	48	0
2	39	V
3	32	7
4	27	W
5	23	4
6	21	X
7	20	1
8	19	Y

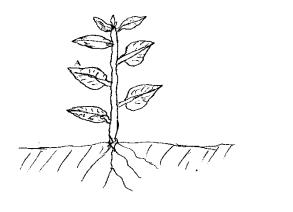
- (i) Given the above information, calculate the Marginal Rate of Substitution and give the value of V, W, X and Y. (4mks)
- (ii) Given that the price of dairy meal is Kshs.8.00 per kilogram and that of home-made feeds is Kshs.2.00 per kilogram, calculate the least cost combination. (1mk)
- **22.** The diagram below illustrates one of the arable field crops. Study it carefully and answer the questions that follow.

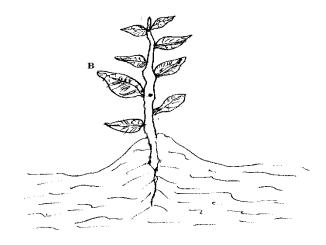


- a) Identify the field crop. (1mk)
- c) Explain four **cultural** methods of controlling the disease named H in (b) above (2mks)
- 23.aName the deficient nutrient element in plants showing the following symptoms;

- i. Stunted growth, die back of plant tips, leaves roll up and chlorosis along margins of younger leaves (1mk)
- *ii.* Yellowing of leaves appears first on lower leaves; leaves turn brown and fall prematurely, stunted growth. (1mk)
- *iii.* Leaf curling, yellowing of leaves tips and edges of leaves scorched and has small mottles. (1mk)
- *iv.* Purpling of leaves, stunted growth, slender stalks and lateral buds remain dormant. (1mk)

b The diagrams below show a practice out on various crops on the farm. **Study** them carefully and answer the questions that follow.

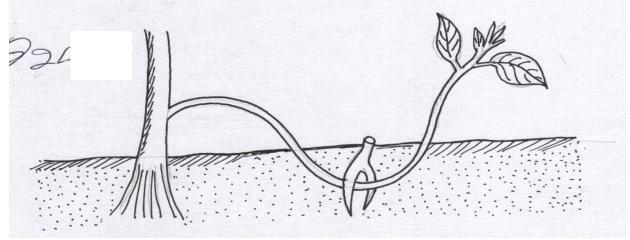




Identify the practice in diagram B

(1 mk)

24.The figure below is a diagram illustrating a method of crop propagation. Study it carefully then answer the questions that follow.



a) Name the method of propagation illustrated above

(1mk)

- b) Give **two** ways of initiating faster root development in the propagation method shown above (2mks)
- c) What would make it necessary for a farmer to choose the above method of propagation instead of using cuttings? (2mks)

SECTION C (40MKS)

Answer any TWO questions in this section

25. a) Describe the production of tomatoes under the following:-

(i) Transplanting:	(5mks)

(ii) Field Management practices. (5mks)

b) Give **six** advantages of drip irrigation. (6mks)

c) Explain **four** factors that determine the quality of hay. (4mks)

26.Study the information provided carefully and use it to prepare a profit and loss account for Mr. Makunda farm for the year ending 2021 .His purchases and expenses were as follows:

Goats	4,000
Poultry	15,000
Dairy meal	25,000
Pasture seeds	50,000
Transportation of farm produces	15,000
Casual workers	12,000
Ox-plough	10,000
Opening Valuation	150,000

His sales and Receipts.

Mohair	75,000
Rabbits	36,000
Pigs	70,000
Groundnuts	100,000
Orange	20,000
Eggs	15,000
Closing valuation	200,000

a) Prepare profit and loss account (15mks)

b) Name Five methods of draining water in water logged / marshy areas. (5mks)

27. (a) Explain five problems associated with credits? (5marks)

b) Explain eight uses of farm records? (8marks)

c) Explain seven effects of strong winds in agriculture (7marks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 5 PAPER 2

443/2

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

INSTRUCTIONS TO CANDIDATES.

- a) Write your name & Index Number in the spaces provided.
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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

SECTION A (30MKS)

Answer ALL the Questions in this section

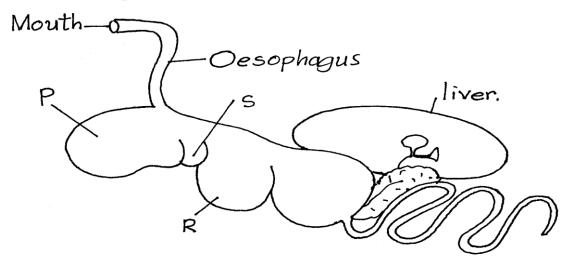
1) N	Name the breed of goat kept for hair production	(1mk)	
2) S	2) State <u>two</u> ways in which barbed wire fence may be reinforced in the farm		
3) B	Broadly classify two causes of infertility in a herd of cattle	(1mk)	
4) N	Name the tool that is used together with the following as a pair	(1mk)	
	Hypodermic needle	•	
	Elastrator		
5) N	Name four signs of anthrax observed in carcass of cattle	(2mks)	
6) N	Name four ways by which cannibalism in poultry could be avoided	(2mks)	
7) N	Name the intermediate host of the following parasites	(1mk)	
	a. Tapeworm		
	b. Liver fluke		
8) a) List down two groups of cattle that are susceptible to milk fever	(1mk)	
	Give two situations which may necessitate the preparation of artificial	colostrum	
		(1mk)	
	Give two uses of gears in a tractor.	(1mk)	
9) a	List <u>two</u> tools used for laying concrete blocks when constructing a wall	(1mk)	
b	List four characteristics of clean, high quality milk	(2mks)	
10)	a) What is the cause of grass staggers in animals	(1mk)	
C	Give the meaning of the following terms as used in livestock health	(2mks)	
	i) Incubation period		
	ii. =ii) Mortality rate		
11)	a) Write down two common examples of chemical causes of diseases a	mong	
li	vestock	(2mks)	
	b) Name two main parts of a farm buildings	(1mk)	
N	Name the breed rabbit with black nose, ears and tail but the body is white	(1mk)	
12)	a) State <u>two</u> uses of a footbath in a cattle dip	(1 mk)	
	b) What is hybrid vigour or heterosis in breeding?	(1mk)	
13)	a) What is the difference between a tenon and crosscut saw	(1mk)	
	a. b) State two qualities of marketable size eggs	(1mk)	
14)	a) Give <u>one</u> reason for housing calves singly	(1mk)	
	a. b) State two uses of a drawbar in a tractor	(1mk)	
15)	State <u>two</u> functions of corner posts in barbed wire fences	(1mk)	
16)	State the difference between crutching and radddling	(1mk)	

SECTION B (20MKS)

(1mk)

Answer All Questions In This Section

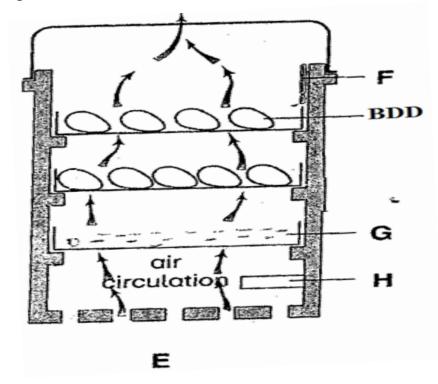
The illustration below shows part of the digestive system of a cow. Study it carefully **17**) and answer the questions that follow.



Identify the part labelled R on the diagram (1 mark) bWhich of the parts labelled is also referred to as:

The "book" or "many plies" $(^{1}/_{2}mk)$ i) The "honey comb" $(^{1}/_{2}mk)$ ii) State **two** microbial activities that take place in the chamber labeled P? (2mks)State the role of esophageal groove in ruminants

The diagram E below illustrates an activity carried out by a farmer. Study the diagram **18**) and answer the questions that follow.



Identify the activity carried out in the structure labelled E above Name the parts labelled F and H in the structure E above

(1mark)

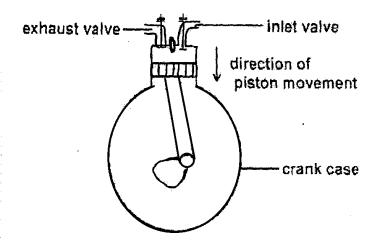
(2mks)

i.	F	• • • • • • • • • • • • • • • • • • • •			
----	---	---	--	--	--

ii. H.....

State <u>two</u> conditions apart from air circulation in E above which are necessary for a successful activity being carried out (2mks)

19) The diagram below illustrates a stroke in a four stroke cycle engine. Study it then answer the questions that follow. The arrows show the direction of motion of the piston



Identify the stroke illustrated by the diagram

(1 mark)

Identify the type of tractor engine illustrated in the diagram on the basis of type of fuel it uses (1 mark)

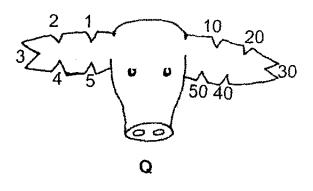
Give a reason for your answer in (b) above

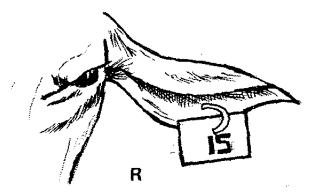
(1 mark)

Name in the correct order the next two strokes which follow the one illustrated above

(2mks)

20) Diagram Q and R below illustrates a practice carried out on livestock. Study the diagrams and answer the questions that follow:





Identify the practice in Q and R

(1mk)

Name the method carried out in Q and R

(1mk)

a. Q

KCSE FINAL PREDICTIONS S1		MWALIMU AGENCY
	b. R	•••••
S	tate one advantage of R over Q	(1mk)
G	rive <u>two</u> reasons of carrying out the practice Q and R	(2mks)
21)	SECTION C (40 MARKS Attempt Any Two Questions In The Space a)Discuss the general methods of controlling livestock diseased Give five advantages of four-stroke cycle engines State five disadvantages of natural mating	ce Provided
22)	 a) Explain <u>five</u> factors to be considered when selecting a b) Describe the essentials of clean milk production in da c) Outline the disease predisposing factors in livestock 	iry farming (5 marks) (5 marks)
23)	State <u>five</u> symptoms of East Coast Fever Give five advantages of using animal power	(5 marks) (5 marks)
	Orve <u>nive</u> advantages of using annual power	(3 mai ks)

(5 marks)(5 marks)

Give **five** characteristics of beef cattle breed

Describe the reasons why bees may abscord from a beehive

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 6 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

SECTION A (30MKS)

Answer ALL the Questions in this section

- 1. What determines the colour of a particular soil? (1mk)
- 2. State **three** reasons for early weeding in annual crop production. (1½mks)
- 3. (a) Give any **four** factors which determine the number of operations done in a field before it is ready for sowing seeds. (2mks)
 - **(b)** A potato farmer observes wilting in his potato crop during a rainy season. Name **one** possible disease and pest which could be responsible for the wilting in the crop.

Disease (1mk) pest

- 4. List any three factors considered when spacing crops during planting. (3mks)
- 5. (a) State any **three** disadvantages of indiscrimination and persistent use of pesticide in crop production. (2mks)

Give **four** aims of research in maize by Kenya Agricultural Researchers in the institution (KARI) (2mks)

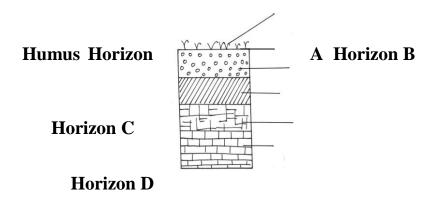
- 6. (a) Name four pasture legumes grown in high altitude zone. (2mks)

 Distinguish between topping and top dressing of pasture. (2mks)
- 7. State **four** characteristics of system of farming. (2mks)
- 8. List **four** advantage of grafting as a method of crop propagation. (2mks)
- **9.** State **three** environmental factors which favour the population of pest in a give locality.
- 10. State four rols of trees in soil and water conservation. (2mks)
- 11. Give three symptoms of viral infection on crops. (1½mks)
- 12. Distinguish between over sowing and undersowing as used in forage crops. (1mk)
- a) Define the term land reform. (½ mk)
 b) Give the methods of land reforms in Kenya. (1½ mks)
- 14. Give four factors that may determine the price of agricultural commodity. (2mks)

SECTION B

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

15. The diagram below represents a well-developed soil profile. Use it to answer questions below. **vegetation**



(i) Describe the characteristics of horizon A

(2mks)

- (ii) Apart from humus, name three other components of soil
- $(1\frac{1}{2} \text{ mks})$
- (iii) State three ways in which humus contributes to the quality of soil.
- (3mks)

16. Observe the following diagram and answer the questions that follow.

Soil

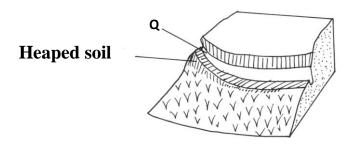
40cm

40cm

Seedling

- a) (i) Name the type of structure above used to prepare seedlings (½ mks)
 - (ii) State **three** advantages of this methods of preparing seedlings. (1 ½ mks)
- (i) After sowing seeds give **three** practices carried out before seedlings germinate. (1½ mks)
 - (ii) Give **three** management pratices that should be carried out to increase that survival of the seedling in the seedbed before transplanting. (3mks)

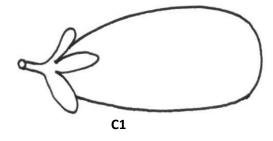
17. Below is a structure used to conserve soil.



(i) Identify the part marked \boldsymbol{Q}

(1/2 mk)

- (ii) Give **two** ways on how the structure conserving soil the conserve soil and water. (2mks)
- **18.** Study the diagrams below showing tomato fruits.





C2

(a) Which fruit is good for processing and for fresh market.

(1mk)

Processing

Fresh market.

What physiological disorder occur in specimen either C1 or C2 in the field. (½ mk)

State **two** way of controlling the disorder named in (b) (ii) above

(1mk)

SECTION C (40MARKS)

Answer any two questions in this section in the s[paces provided

19. (a) Name five methods of applying fertilizers to crops.

(**5mks**)

(b) Explain four characteristics of phosphatic fertilizer.

(8mks)

(c) (c) State six roles of organic matter.

(6mks)

20. (a) Define profit and loss account.

(2mks)

(b) The following is a list of financial and position of Mr. Ndama's farm in 2010.

Study the information carefully and then answer the questions that follows:-

<u>ITEMS</u>	<u>VALUE</u>
Sale of dairy Cattle	28,000.00
Closing valuation	25,000.00
Purchase of fertilizer	6,000.00
Interest payable	2,000.00
Milk sale	3,000.00
Veterinary bills	900.00
Wages	1,600.00
Opening valuation	4,800.00
Sales of pigs	8.000.00

Sales of pigs 8,000.00

Purchase of Asserted tools 3,560.00

Depreciation of machines 720.00

Repair of pigsty 370.00

(i) Prepare a profit and loss account for Mr. Ndama's farm. (15mks)

(ii) Calculate the percentage profit or loss of Mr. Ndama's farm. (3mks)

- 21. (a) Explain the management practice a farmer may carry out to improve the quality and quantity of Various crop yields. (12mks)
 - (b) describe how various practices carried out in the field help to control crop pests. (8mks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 6 PAPER 2

443/2

Time: 2 Hours

NAME	INDEX NO	
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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

SECTION A (30MKS)

Answer ALL the Questions in this section

1) N	Name four light breeds of poultry.	(2mks)	
2) S	state four conditions necessary for egg incubation	(2mks)	
3) (Give four disadvantages of inbreeding.	(2mks)	
4) (Give four factors that a farmer may consider while carrying out culling in lives	tock	
p	production.	(2mks)	
5) S	state four predisposing factors of pneumonia in lambs	(2mks)	
6) N	Name four tools used in dehorning.	(2mks)	
7) (Give four general methods of controlling livestock diseases.	(2mks)	
8) S	8) State four features of clean milk. (2mks)		
9) Name four factors to consider while choosing construction materials in the farm.(2mks			
10)	State four control measures of liver fluke	(2mks)	
11)	State four factors that influence the pulse rate of an animal.	(2mks)	
12)	Distinguish between the Saanen and Jamnapari breeds of goats.	(2mks)	
13)	Give four types of beehives.	(2mks)	
14)	State two ways of caponisation in poultry.	(2mks)	
15)	Name four disadvantages of battery cage system.	(2mks)	

SECTION B (20 MARKS)

Answer All The Questions In This Section

Study the diagram of a cow below and answer the subsequent questions. **16**)



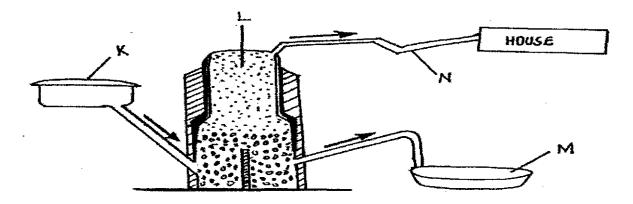
Identify the livestock equipment marked E above. State two uses of the equipment in 17 (i) above.

(1mk)

(2mks)

Name the **two** types of identification marks applied on the animal above. (1mk) Show with an arrow and mark with letter P where pye-grease acaricide should be applied on the animal. (1mk)

17) Study the illustration of a biogas digester plant and answer the questions that follow.



Name the major component of biogas that is trapped in part L above. (1mk)

Give the name of the material deposited in part labeled M and its use. (1mk)

a. name

b. Use_____

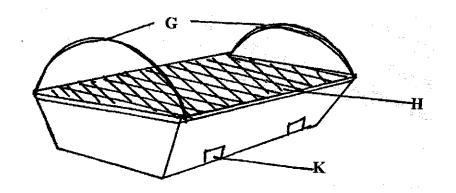
What is the component of K in the biogas production?

(1mk)

Give **three** disadvantages of biogas as a source of farm power.

(3mks)

18) Below is a diagram illustrating a beehive? Study carefully an answer the questions that follow.



Name the type of beehive shown (1mk)

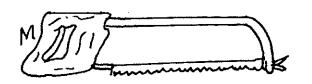
Name the parts labeled H and K (1mk)

Give **two** importance of part G (2mks)

Give **two** tools used for detaching honey combs during honey harvesting. (2mks)

19) Study the diagram below f farm tools and equipment and answer questions that follow.

(8mks)





Identify tool M and N	(1mk)
State one functional difference between M and N	(1mk)
State two maintenance practices of tool M.	(1mk)

SECTION C (40 MARKS)

Answer Any Two Questions From This Section

<u> </u>
(4mks)
of dairy calves.
(5mks)
(3mks)
headings.
(1mk)
(1mk)
(1mk)
(2mks)
(2mks)
(12mks)
ne time of laying
(1mks)

(b) State and explain **eight** materials and equipment used during milking.

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 7 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

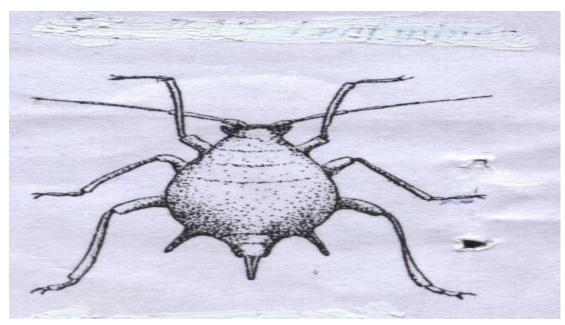
SECTION A (30MKS)

Answer ALL the Questions in this section

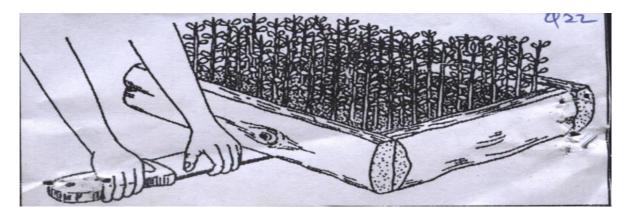
Name any four biotic factors influencing agricultural production and 1. distribution. (2mks)State any **two** branches of horticulture. (1mk) 2. State **two** properties of soil that are influenced by its texture. **3.** (1mk) Name any **two** tillage practices that ensure uniform germination of seeds. 4. (1mk) 5. State **four** benefits of minimum tillage in crop production. (2mks)Name two indicators of well decomposed compost manure. (2mks)**6.** Calculate the amount of K₂O contained in 400kg of a compound fertilizer 7. 25:10:5. (2mks)Name **two** macro elements whose deficiency in crops causes chlorosis 8. (1mk)State **two** benefits a farmer would get by having the correct plant 9. population in the production of annual crops. (1mk) State **two** precautions when handling innoculated seeds. **10.** (2mks)11. State **two** importance of tissue culture in crop production. (1mk) **12.** Give **two** activities carried out during hardening off of tomatoes seedlings. (1mk)**13.** Name **four** management practices carried out on a banana stool.(2mks) 14. State **two** ways in which crop rotation controls crop diseases. (1mk) **15.** Give **two** reason of raising kale seedlings in the nursery before transplanting. (2mks)**16.** Name four factors that are considered when classifying crop pests.(2mks) List **two** non-pathogenic causes of crop disease. **17.** (2mks)Give **two** benefits of top dressing in the management of grass pastures. **18.** (1mk) State **four** ways of improving labour productivity in a farm (2mks)**19.** State the use of each of the following financial documents. (1mk) i) Cash receipt ii) Delivery note

SECTION B (20MKS)

21. Use the illustration given below to answer the questions that follow.



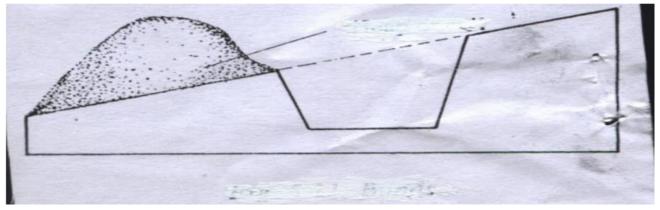
- a) Identify the pest given. (1mk)
- b) State the economic importance of the pest. (1mk)
- c) Name at least <u>two</u> crops attacked by the pest. (1mk)
- d) State <u>two</u> control measures of the pest. (1mk)
- 22. The diagram below shows a nursery management practice carried out on a tree seedling. Study it and answer the questions that follow.



- i) Identify the management practice. (½ mk)
- ii) Give <u>two</u> reasons for carrying out the practice you have named in 22(i) above (2mks)
- iii) State <u>three</u> reasons for grafting old trees as a management practice.

 $(1 \frac{1}{2} \text{ mks})$

23. The diagram below shows a structure used in soil and water conservation. Study it and answer the questions that follow.



a)i) Identify the structure.

 $(\frac{1}{2} mk)$

- ii) State **two** ways by which the feature conserves soil and water. (1mk)
- b) Outline the procedure followed in the preparation of the structure named in(a) (i) above.(1½ mks)
- **24.** Carefully study the diagram below then answer the respective questions.



a) Identify cultivar F, G, and H

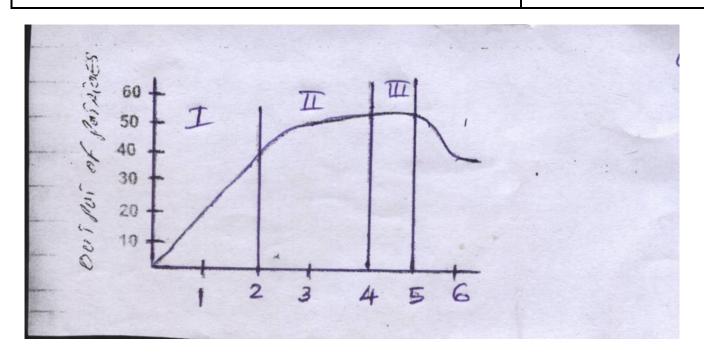
(3mks)

F-

G-

H-

- b) What advantage does cultivar H have over cultivar F. (1mk)
- 25 .Below is a graphical representation of the law of diminishing returns.



- a) Explain what happens in each of the zones marked I, II, III in relation to output (1 ½ mks)
- b) Which of the three is a rational zone of production? (½ mk)
- c) State any <u>two</u> precautions a potato farmer would take to minimise risk in the production of potatoes. (2mks)

SECTION C (40MKS)

26a) Explain **five** methods of drainage.

(5mks)

Explain <u>five</u> factors to consider when choosing maize varieties for different ecological zones in Kenya.

(5mks)

b) Outline <u>ten</u> effects of wind on agricultural production. (10mks)

27a) Explain <u>six</u> importance of farm budgeting.

(6mks)

- b) Outline <u>six</u> importances of trees and shrubs. **DD** (6mks)
- c) Explain <u>eight</u> roles of agricultural co-operative societies in Kenya.(8mks)

28a) Describe the procedure of silage making.

(10mks)

- b) Give <u>four</u> reasons why green manure is not commonly used. (4mks)
- c) State <u>six</u> advantages of land consolidation. (6mks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 7 PAPER 2

443/2

Time: 2 Hours

NAME	INDEX NO	
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INSTRUCTIONS TO CANDIDATES.

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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

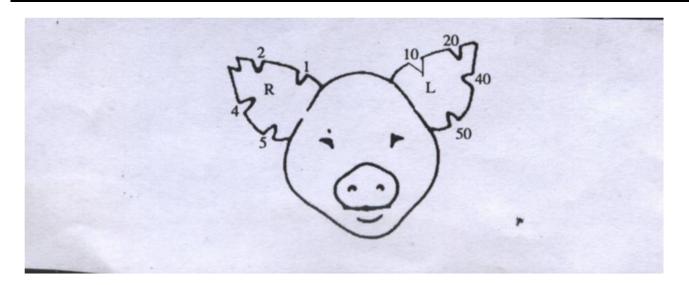
SECTION A (30MKS)

Answer ALL the Questions in this section

Name **two** tools used for cutting galvanized iron pipes. 1. (1mk)2. State the difference between a tenon and a cross-cut saw. (1mk) State the difference between the large white and landrace breeds of pigs. **3.** (2mks)Define the following terms as used in poultry production. 4. (1mk) Capon i) ii) Hen State two ways by which proper feeding contribute to disease control in 5. livestock (1mk) What is prophylactic treatment in animal production? (1mk) **6.** State two predisposing factors of diseases inside the animals body. 7. (2mks)Give two harmful effects of fleas in poultry. 8. (1mk) Give **two** control measures of liverflukes in livestock. (2mks)9. **10.** Give two importance of additives in livestock feed. (1mk) State two uses of production ration in livestock. (1mk) 11. State one functional difference between the rumen and abomasums in ruminant **12.** digestion. (1mk) State **four** desirable characteristics to be considered when selecting heifer for **13.** milk production. (2mks)**14.** Give two advantages of embryo transplants technology. (2mks)State **two** advantages of using the seine nets over the hook and line. **15.** (1mk) **16.** State two importance of tooth clipping in pigs. (2mks)**17.** State **four** reasons considered in culling dairy cattle. (2mks)**18.** State two advantages of using spray race over the plunge dip. (1mk) **19.** Give **four** structural requirements of a calf pen (2mks)**20.** Name two common vectors of protozoan diseases in livestock. (1mk)

SECTION B (20MKS)

- 21. State <u>one</u> use of the following parts in a tractor engine. (2mks)
- *i*) Mortar
- ii) Piston
- 22. The diagram below shows a certain practice carried out in pigs



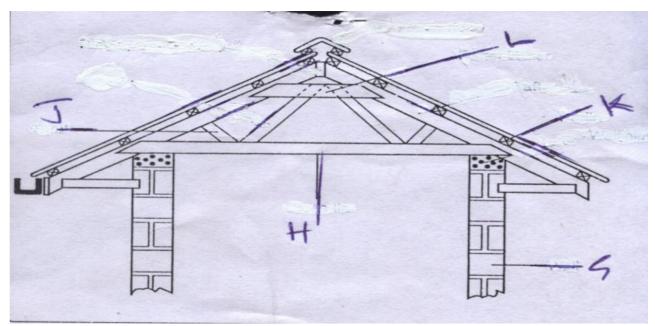
a) Identify the practice illustrated

(1mk)

b) Draw another illustration depicting piglet no.37

(2mks)

- c) State <u>two</u> other methods of identification in piglets.
- **23.** The diagram below represents parts of a roof. Study the diagram and answer questions that follow.



a) Name the parts labelled G, H, J and K,

(2mks)

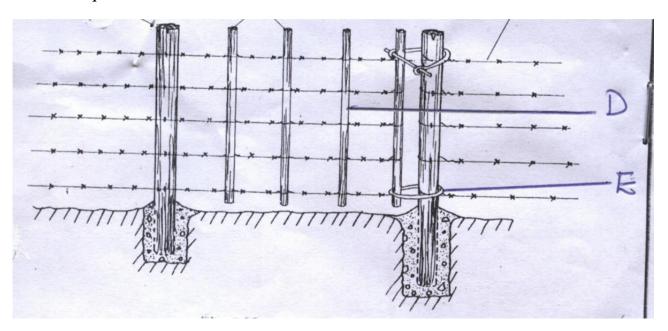
- G H
- J

K

b) State **two** functions of the roof illustrated above.

- (1mk)
- c) Give the collective term for the parts labelled H, J and L
- (1mk)

24. The diagram below shows a type of a farm gate. Study the diagram and answer the questions that follow.



a) Identify the type of gate shown. (1mk)

b) Name parts labelled **D** and **E**. (1mk)

i State <u>one</u> function of the part labeled E. (1mk)

ii) State <u>two</u> functions of the gate illustrated above. (1mk)

25. The diagram below illustrates a calf rearing practice.

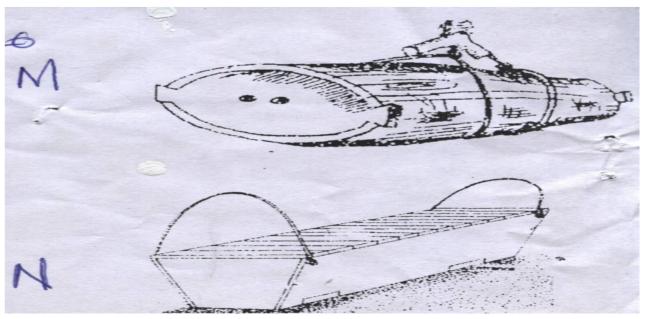


a) Identify the practice illustrated above.

 $(\frac{1}{2} \text{ mk})$

- b) i) Describe the procedure followed in the feeding practice named in (a) above. (2 ½ mks)
- ii) Give <u>two</u> precautions taken while using the rearing practice stated in (a) above. (1mk)

26. The diagram below are types of beehives. Use then to answer the questions that follow.



a) Give the identity of each hive.

(1mk)

b) State **two** advantages of hive N over M.

(2mks)

c) Give two methods of stocking the hive N.

(1mk)

SECTION C

- **27a**) Compare the use of ox-drawn mould board plough with that of a tractor drawn mould board plough. (9mks)
- b) Describe the maintenance practices that should be carried out on oxdrawn mould board plough. (2mks)
- c) What are the advantages and disadvantages of using tractor hire services instead of owning and using your own. (5mk)
- 28a Describe the management of layers in a deep litter system starting from the point of lay (10mks)
- b) Discuss milk fever (parturient paresis) under the following sub-headings
- i) Predisposing factors. (2mks) ii) Symptoms (5mks) iii) Control and treatment (3mks)
- **29a**) Describe the use of various hand tools required for the construction f a wooden fence. (5mks)
- b) Outline the procedure of castrating a bull using a burdizzo. (7mks)
- c) Describe eight reasons why bees may abscord from a beehive. (8mks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 8 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
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A	30	
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SECTION A (30MKS)

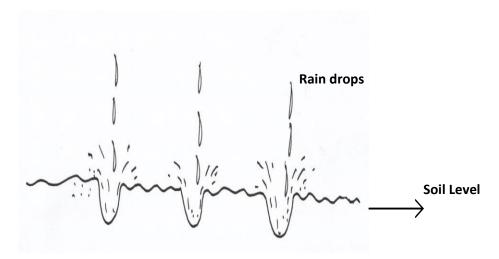
Answer ALL the Questions in this section

1.	State two factors that determine the colour of soil during soil formation. (1mark)		
2.	State four harmful effects of crop pests in maize production.	(2mks)	
3.	Give two properties of phosphatic fertilizers.	(1mk)	
4.	List three physical agents of chemical weathering.	(1½mks)	
5.	Mention four factors that influence the choice of implement to use in primary		
	cultivation.	(2mks)	
6.	State four reasons of cutting back in pyrethrum.	(2mks)	
7.	State two methods of table formation in tea production	(1mk)	
8.	Name the chemical used to achieve the following during water treatme	ent.	
	(a) Coagulation of solid particles.	(1mk)	
	(b) Softening of water	(1mk)	
	(c) Killing pathogens	(1mk)	
9.	List three types of product-product relationship in Agricultural econor	mics	
•	Zist vii vo types of product product retailonship in right distant cooling		
		(1½mks)	
10.	Distinguish between contact and systemic herbicides in weed control.	(1½mks) (1mk)	
10. 11.	Distinguish between contact and systemic herbicides in weed control. List four biotic factors influencing Agriculture.	(1mk)	
10. 11. 12.	List four biotic factors influencing Agriculture.	(1mk) (2mks)	
11.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees.	(1mk) (2mks) (1mk)	
11. 12.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer.	(1mk) (2mks)	
11. 12. 13.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer. State one way in which inorganic mulch helps to conserve soil water.	(1mk) (2mks) (1mk) (2mks)	
11.12.13.14.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer.	(1mk) (2mks) (1mk) (2mks)	
11.12.13.14.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer. State one way in which inorganic mulch helps to conserve soil water. Give the meaning of the following terms as used in crop production.	(1mk) (2mks) (1mk) (2mks) (1mk)	
11.12.13.14.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer. State one way in which inorganic mulch helps to conserve soil water. Give the meaning of the following terms as used in crop production. (a) Closed season (b) Earthing up	(1mk) (2mks) (1mk) (2mks) (1mk)	
11. 12. 13. 14. 15.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer. State one way in which inorganic mulch helps to conserve soil water. Give the meaning of the following terms as used in crop production. (a) Closed season (b) Earthing up State four benefits of soil organisms in crop growth.	(1mk) (2mks) (1mk) (2mks) (1mk) (1mk)	
11.12.13.14.15.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer. State one way in which inorganic mulch helps to conserve soil water. Give the meaning of the following terms as used in crop production. (a) Closed season (b) Earthing up	(1mk) (2mks) (1mk) (2mks) (1mk) (1mk) (1mk) (2mks)	
11.12.13.14.15.16.17.	List four biotic factors influencing Agriculture. State two methods of harvesting Agro forestry trees. Give four advantages of title deed to a farmer. State one way in which inorganic mulch helps to conserve soil water. Give the meaning of the following terms as used in crop production. (a) Closed season (b) Earthing up State four benefits of soil organisms in crop growth. State four ways in which seeds can be treated before planting.	(1mk) (2mks) (1mk) (2mks) (1mk) (1mk) (1mk) (2mks) (2mks)	

SECTION B (20marks)

Answer all questions in the spaces provided.

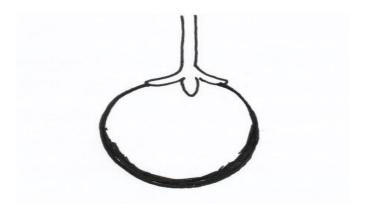
20. The diagram below illustrates a type of soil erosion. Study it carefully and answer the questions that follow.



(a) Identify the type of erosion illustrated above.

(1mk)

- (b) State **two** measures that could be used to control the type of soil erosion illustrated above. (2mks)
- **21.** The diagram below illustrates a crop disease. Study it carefully and answer the questions that follow.



(a) Identify the disease illustrated above.

(1mk)

(b) State **three** control measures for the disease illustrated above.

(**3mks**)

22. The table below illustrates the yield of maize in 90kg bags in response to application of different quantities of planting fertilizers. Study it carefully and answer the questions that follow.

Fertilizer input in 50kg bags	Maize output in 90kg bags	Average Product (AP)	Marginal Product (MP)
0	6		
1	10	10.0	10.0
2	24	12.0	
3	31		7.0
4	36		5.0
5	40	8.0	_
6	43		3.0
7	43		0
8	40		_

(a) Complete the table by filling in the blank spaces.

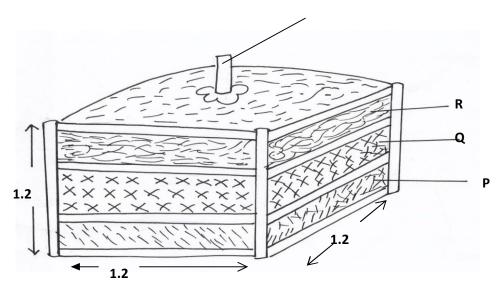
(4marks)

(b) Suggest the best stage of production in relation to the fertilizer application. (1mk)

23. The diagram below illustrates the preparation of compost manure. Study it carefully and answer the

questions that follow.

 \mathbf{T}

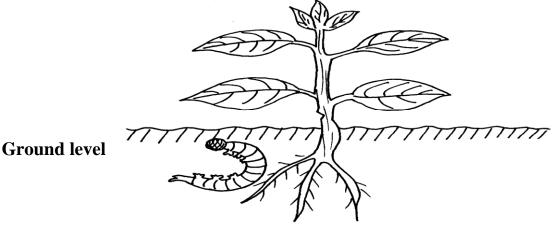


(a) Identify the layers labeled P, Q and R above.

(b) State **one** use of each of the layers labeled P and T.

P.....(1mk)

24. Below is an illustration showing a cabbage seedling attacked by a pest. Study it carefully and answer the questions that follow.



(a) Identify the pest illustrated above.

(1mk)

(b) State how the pest causes damage to the crop.

(1mk)

(c) Give **one** method of controlling the pest illustrated above.

(1mk)

SECTION C (40 marks)

Answer any two questions in the spaces

25. (a) Explain the sources of capital to a farmer.

(10mks)

- (b) Explain the marketing functions involved in the marketing of maize. (10mks)
- **26.** (a) Describe the preparation of silage in a farm.

(10mks)

(b) Explain the methods of establishing pastures.

(3mks)

(c) Describe the management of pastures.

(3mks)

- (d) Explain methods of draining water in water logged/marshy areas. (4mks)
- 27. (a) Describe the uses of water on a farm.

(8mks)

(b) Explain reasons for pruning in crops.

(7mks)

(c) Describe the procedure of sowing vegetable seeds in a nursery.

(5mks)

KCSE FINAL PREDICTION

AGRICULTURE

TRIAL 8 PAPER 2

443/2

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

INSTRUCTIONS TO CANDIDATES.

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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
С	40	

SECTION A (30MKS)

Answer ALL the Questions in this section

- 1. State **Two** disadvantages of fencing using barbed wire. (1mk)
- 2. Write down **Four** factors considered when computing a ration for livestock on the farm. (2mks)
- State Four symptoms that you would observe in an animal that has just died of Anthrax.

 (2mks)
- 4. List down Three types of harrows which are commonly used in Kenya. ½ mks)
- 5. State Two channels through which farmers can market their beef cattle. (1mk)
- **6.** State **Four** characteristics that make it possible for a carried to survive in arid and semi-arid areas. (2mks)
- 7. Give Four factors considered when grading eggs for marketing. 2mks)
- 8. Name Four predisposing factors of pneumonia in livestock. (2mks)
- **9.** Give **Four** practices used to improve milk production in a herd of indigenous dairy cattle. (2mks)
- 10. State Four points to look for when identifying non-layers in poultry production.(2mks)
- 11. Give Two ways by which proper nutrition helps to control livestock diseases. (1mk)
- 12. Give Four ways of stimulating milk let down in a dairy cow. (2mks)
- 13. State Four harmful effects of internal parasites on livestock. (2mks)
- 14. State Four ways through which tractor power could be utilized. (2mks)
- **15.** Write down **Four** maintenance practices that should be carried out on a cattle dip.

(2mks)

- 16. A part from concrete what other **Three** materials would be required in the construction of the floor of a milking shed.

 1½ mks)
- 17. State Five factors to consider when siting a bee-hive in a far.(1 ½mk)

SECTION B (20 MARKS)

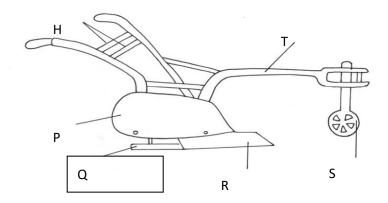
Answer All questions in this section

(1mk)

18. Below is an illustration of an activity carried out to detect an infection of the udder before milking. Study it carefully and answer the questions that follow.



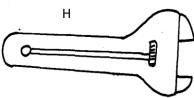
- a) Identify the equipment labeled **U** in the illustration above.
- b) State **Two** changes in milk that would be observed if the udder illustrated above is infected by a disease detected by equipment identified in (a) above. (2mks)
- 19. A farmer wanted to prepare a balanced ration for growing chicken containing 16% DCP. He was advised to use wheat and sunflower. Wheat contains 10% DCP while sunflower contains 34% DCP. Using pearsons square method, calculate the amount of each of the feedstaff the farmer would need in order to prepare 1000 kgs of the chicken ration. (Show your calculations clearly).5mks)
- **20.** Below is an illustration of a farm implement, study it carefully and answer the questions that follow.

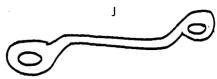


a) Identify the implement illustrated above.

1mk)

- (b) State One basic function of the implement named in (a) above. 1mk)
- (c) What maintenance practice should be carried out on parts labeled S and Q





(a) Identify the tools labeled **H** and **J** above.

Н (1mk)

J...... (1mk)

(b) What functional **advantage** does tool **H** have over tool **J**? (1mk

SECTION C (40 MARKS)

Answer any Two questions in this section

- 23. Discuss Foot Rot disease under the following sub headings.
- (i) Causal Organism. (1mk)
- (ii) Predisposing factors. (3mks)
- (iii) Symptoms of attack. (9mks)
- (iv) Control Measures. (7 mks)
- **24.** Differentiate between **diesel** and **petrol** engines.

20mks)

- 25. (a) Describe the advantages of battery cage system of rearing layers. (10mks)
 - (b) Outline factors to consider when selecting livestock for breeding. (10mks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 9 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

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FOR EXAMINERS USE ONLY

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A	30	
В	20	
C	40	

SECTION A (30MKS)

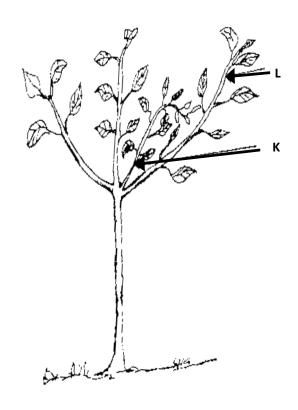
Answer ALL the Questions in this section

	E CONTRACTOR DE LA CONT	
1.	Give three ways in which nitrogen is removed from the atmosphere.	
		(1½Marks)
2.	Give three conditions that necessitate clearing of land.	(1½Marks)
3.	State two ways in which agriculture contribute to industrial deve	elopment in a
	country.	(1 Marks)
4.	State four factors considered when choosing seed rate.	(2 Marks)
5.	Define the term land reform.	(1 Mark)
6.	State four factors that affect the selectivity and effectiveness of	herbicides.
		(2 Marks)
7.	How can a farmer reduce losses in stored grain? State four ways	s. (2 Marks)
8.	Outline the procedure followed when sampling soil.	(2 Marks)
9.	. Give four dangers of having a hand-pan layer within a soil profile.(2 Marks	
10.	Give four advantages of staking tomatoes.	(2 Marks)
11.	a) Name four diseases caused to man by drinking untreated water	er. (2 Marks)
	State the functions of the following chemicals used in water tre	eatment.
,	farks)	
i)	Chlorine	
	ii) Aluminium Sulphate (Allum)	(1 Mark)
12.	Give four reasons for keeping health records.	(2 Marks)
13.	State three qualities of a good silage.	(1½Marks)
14.	Name the chemicals used in control of the following crop pests.	(1½Marks)
	i. Insects	
ii.	Nematodes	
iii.	Mites	
15.	State four factors that influence mass wasting.	(2 Marks)
16.	Differentiate between gross domestic product (GDP) and gross r	
15	product (GNP).	(2 Marks)
17.	State two varieties of bulbed onion.	(1 Marks)

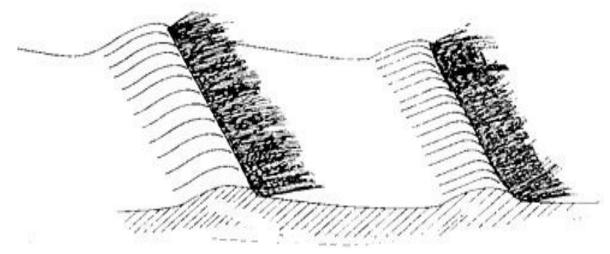
SECTION B (20 Marks)

Answer all questions in this section in the spaces provided.

18. a) Below is a diagram of a young orange tree.



- i) Which one of the branches labeled K and L should be pruned?
 ii) Give three reasons for your answer in (a) (i) above.
 iii) Name the correct tool for pruning the branch.
 Name any two crops propagated through suckers.
 (½ Marks)
 (1/2 Marks)
 (1/2 Marks)
- 19. The diagram below shows a method of soil and water conservation method. Study it and answer the questions that follow.



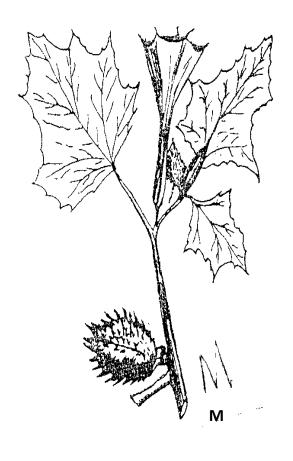
a) Identify the method. (½ Marks)

b) List two methods of establishing the structure. (2 Marks)

c) Give two factors that necessitate the construction of the structure. (2 Marks)

d) Give **four** other physical structures that can be used for the same purpose as the structure. (2 Marks)

20. The illustration below are crop weeds labeled L and M. Study it an answer the questions that follow.





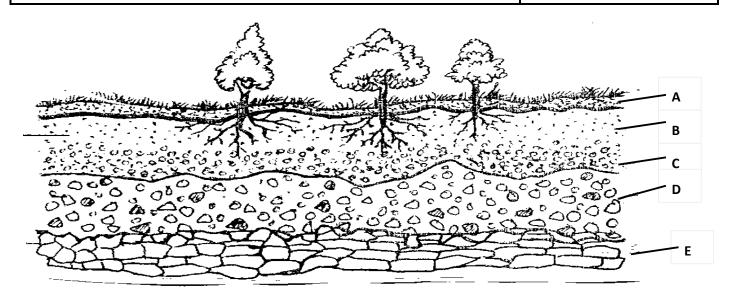
a) Identify the weeds labeled L and M. (1 Mark)

b) Give **one** economic importance of the weed labelled L. (1 Mark)

c) Classify the weed labeled L according to its life span. (½ Mark)

d) Apart from competing for moisture, nutrient and light what other reason is it necessary to control the weed labelled M in a field of pastures. (1 Marks)

21. The diagram below illustrates the earth's surface downward. Study it and answer the questions that follow.



a) Identify the structure illustrated.

(1/2 Mark)

b) Name the parts labelled A - E.

(2½Marks)

c) Outline four ways through which the above illustration influence crop production. (2 Marks)

SECTION C (40 MARKS)

Answer any two questions in this section.

22. Describe the production of tomatoes under the following sub headings.

i. Ecological requirements.	(3 Marks)
ii. Nursery establishment and management	(10 Marks)
iii. Field establishment	(7 Marks)

23. Describe the methods of disease control in crops under the following headings.

i. Cultural methods	(14 Marks)
ii. Chemical methods	(6 Marks)
24. a) Outline ten uses of farm records.	(10 Marks)
b) Explain four ways of improving labour productivity in a farming organization.	(4 Marks)
c) Explain six advantages of land consolidation.	(6 Marks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 9 PAPER 2

443/2

Time: 2 Hours

NAME	INDEX NO	
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DATE		

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FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE SCORE
A	30	
В	20	
C	40	

SECTION A (30MKS)

Answer ALL the Questions in this section

1.	Give four cultural uses of livestock.	(2Marks)
2.	State four advantages of zero grazing.	(2 Marks)
3.	Outline six importance's of fences in a farm.	(3 Marks)
4.	State four functions of lubrication system in a tractor.	(2 Marks)
5.	Name two categories of additives in livestock nutrition.	(1 Mark)
6.	Give four methods of stocking a beehive.	(2 Marks)
7.	Give four reasons for maintenance of farm tools and equipment.	(2 Marks)
8.	Give four reasons for treating timber.	(2 Marks)
9.	Give four advantages of four-stroke cycle engine over two-stroke cycle	e engine.
		(2 Marks)
10	Name the intermediate host for liverfluke.	(2 Marks) (1 Mark)
	Name the intermediate host for liverfluke. Name two categories of parasites in livestock.	·
11		(1 Mark)
11. 12.	Name two categories of parasites in livestock.	(1 Mark) (1 Mark)
11. 12. 13.	Name two categories of parasites in livestock. State two methods of lambing in sheep management.	(1 Mark) (1 Mark) (1 Mark)
11. 12. 13. 14.	Name two categories of parasites in livestock. State two methods of lambing in sheep management. State four features of clean milk production.	(1 Mark) (1 Mark) (1 Mark) (2 Marks)
11. 12. 13. 14. 15.	Name two categories of parasites in livestock. State two methods of lambing in sheep management. State four features of clean milk production. What is caponisation?	(1 Mark) (1 Mark) (1 Mark) (2 Marks) (1 Mark)

SECTION B. Answer All Questions In This Section

18. a) Define the term digestibility.

(1 Mark)

b) Using the pearson's square method compute a 1000kg ration with 20% DCP from maize containing 10% DCP and cotton seedcake containing 45% DCP. (Show your working). (5 Marks)

19. Study the illustration below carefully and answer the questions that follow.

a) Name the type of beehive shown above.

(1 Mark)

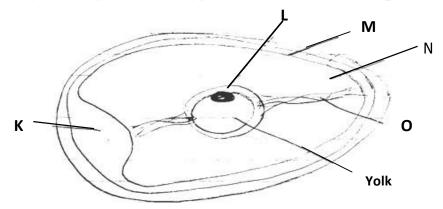
b) Give names of other two types of beehives.

(2 Marks)

c) Name the parts labeled A, B, C and D.

(4 Marks)

20. Study the diagram of an egg shown and answer the questions that follow.



a) Name the parts labelled L, M and N. (3Marks)

b) State the function of the parts labelled O and K. (2 Marks)

O

K.

c) Give **two** reasons for egg candling.

(2 Marks)

SECTION C

Answer any two questions from this section.

21. a) Discuss the disease trypanosomiasis under the following sub titles.

i. Causal organism. (1 Mark)

ii. Animal attacked. (1 Mark)

iii. Mode of transmission (1 Mark)

iv. Symptoms (10 Marks)

v. Control. (3 Marks)

b) Give **four** general management practices for control of parasites and diseases in livestock

production. (4 Marks)

KCSE FINAL PREDICTIONS S1

MWALIMU AGENCY

- **22.** a) Discuss **ten** operational differences between a disk and mould board (**10 Marks**) plough.
 - b) Give **ten** functional and structural differences between petrol and diesel (**10 Marks**) engine.
- **23.** a) Explain **eight** factors considered when siting a farm structure on a farm. (10 Marks)
- b) Outline six desirable features of a good grain store. (6 Marks)
- c) Outline six maintenance practices carried out on saws. (6 Marks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 10 PAPER 1

443/1

Time: 2 Hours

NAME	INDEX NO	
SCHOOL	SIGN	
DATE		

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A	30	
В	20	
C	40	

15)

 $(1\frac{1}{2}mks)$

(1mk)

SECTION A (30MKS)

Answer ALL the Questions in this section

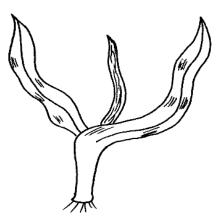
- 1) State **three** reasons why soil is important to crops. 2) List two aspects of light that influence crop growth. (1mk) 3) State three factors to be considered when choosing the type of irrigation to use. $(1\frac{1}{2}mks)$ 1½mks) 4) Give three harmful effects of pests in crop production. 5) State **four** benefits of minimum tillage. (2mks)6) State four practices that should be carried out to maintain grass pastures. (2mks) 7) Differentiate between grafting and budding. (1mk)8) State six problems experienced by farmers in marketing agricultural produce. (3mks) 9) (a) List **four** types of terraces. (2mks)Give **four** methods that could be used to drain farm land. (2mks)State **four** reasons for using certified seeds for planting. **10**) (2mks)State three factors that would determine the amount of fertilizer to be top dressed to **11**) $(1\frac{1}{2}mks)$ a crop in the field. Give **three** effects of overstocking in pasture management. **12**) $(1\frac{1}{2}mks)$ State **four** benefits of budgeting to a farm manager. **13**) (2mks)**14**) Give **three** reasons for staking tomatoes. $(1\frac{1}{2}mks)$
- **16**) What is increasing returns in a production function. (½mk) State **three** roles of trees in soil and water conservation. **17**) $(1\frac{1}{2}mks)$

State **two** importance of tissue culture in crop propagation.

18) Name any **two** diseases that affect bean production in the field. (1mk)

SECTION B (20 MARKS)

Below is a diagram of sorghum seedling that has been attacked by a certain pest. **19**)



(i) Identify the pest.	(1mk)
State the damage that has been caused by the pest named in (a) (i) above.	(1mk)
Give two control measures that can be used to control the pest.	(1mk)

20) (a) Explain the meaning of the following financial documents. (2mks)

(i) Purchase order

Invoice

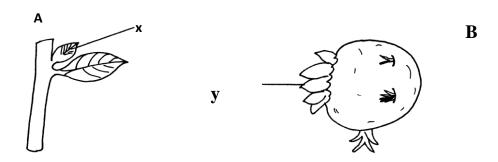
The following accounts information is from Mr. Wanyonyi's farm for the year ending 31-12-2021.

Opening valuation	Kshs. 6,000
Paid wages	Kshs. 5,000
Bought equipment worth	Kshs. 8,000
Bought pig feeds worth	Kshs. 4,000
Sold manure pigs worth	Kshs. 7,000
Bought drugs worth	Kshs. 3,200
Sold vegetables worth	Kshs. 3,000
Sold piglets worth	Kshs. 4,000
Closing valuation	Kshs. 4,000

(i) Using information above, prepare a profit and loss account for Mr. Wanyonyi's farm. (3½mks)

(ii) From the calculations in (i) above, state whether Mr. Wanyonyi made a profit or a loss. (½mk)

21) The illustration below shows materials used in vegetative propagation, labeled **A** and **B**.



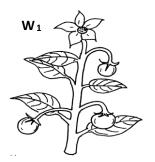
Identify materials **A** and **B**. (1mk)

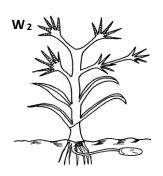
Name the parts labeled \mathbf{X} and \mathbf{Y} . (1 \mathbf{mk})

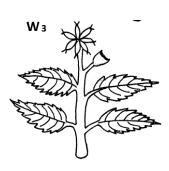
Name the preparation method used to get the vegetative material labeled **B**. (1mk)

State **three** disadvantages of vegetative propagation. (3mks)

22) Below are some common weeds. Use them to answer the questions that follow.







a. Identify W_1 , W_2 , and W_3 .

- $(1\frac{1}{2}mks)$
- **b.** State the problem associated with weeds W_1 and W_3 .

- (2mks)
- c. Give three disadvantages of using herbicides in weed control.
 (1½mks)

SECTION C (40 MARKS)

Answer any two questions in this section

- (a) Explain how various practices carried out in the field help to control crop diseases.(12mks)
 - a. What are the advantages of grass-legume pasture over a pure grass pasture. (8mks)
- **24**) Describe the establishment of kales under the following sub-headings:

a. Nursery preparation

(4mks)

b. Establishment in the nursery

(3mks)

c. Management of seedlings in the nursery.

(5mks)

d. Transplanting of seedlings

(8mks)

- 25) (a) Explain the functions of agricultural marketing boards. (10mks)
 - a. Explain the factors to consider when selecting farm enterprise. (10mks)

KCSE FINAL PREDICTION AGRICULTURE

TRIAL 10 PAPER 2

443/2

Time: 2 Hours

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A	30	
В	20	
C	40	

SECTION A (30MKS)

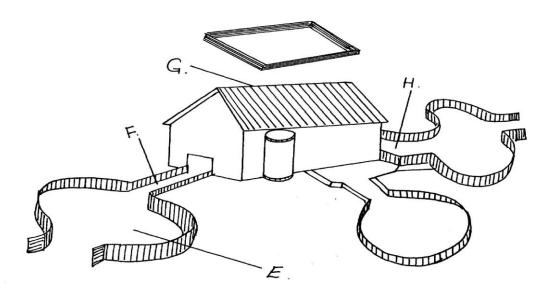
Answer ALL the Questions in this section

1.	State the name of the tool used to widen screw holes for the screw heads to be below		
	the surface.	(½mks)	
2.	Name two tropical dairy goats.	(1mk)	
3.	List three harmful effects of tsetse flies on livestock.	(1½mks)	
4.	State two reasons for including roughage in the ration of non-ruminan	t. (1mk)	
5.	State two factors considered during tupping.	(1mk)	
6.	Give two reasons why teeth clipping is important in pig management.	(1mk)	
7.	State two reasons for seasoning timber before use.	(1mk)	
8.	State any four ways of caring fish after harvesting.	(2mks)	
9.	List four factors that may lead to egg eating in poultry.	(2mks)	
10.	Mention four characteristics of quality whole milk.	(2mks)	
11.	Name three channels through which beef cattle are marketed in Kenya.(1½mk)		
12.	State four limitations of wood fuel as a source of farm power.	(2mks)	
13.	Mention four uses of harrows in the farm.	(2mks)	
14.	Name three methods used in selection of livestock.	(1½mks)	
15.	Mention three purposes of branding in cattle.	(1½mks)	
16.	State three methods used in controlling lice in Kenya.	(1½mks)	
17.	Give four signs of heat in a rabbit.	(2mks)	
18.	List four advantages of practicing zero-grazing.	(2mks)	
19.	Differentiate between crutching and ringing in livestock management	(1mk)	
20.	Mention four areas on a hen that are frequently affected by fleas.	(2mks)	

SECTION B (20 MARKS)

Answer all questions in this section

21. Study the diagram drawn below and answer the questions that follow:



(i) Name the parts labeled ${\bf E}$ and ${\bf F}$.

(1mk)

(ii)State two importance of part G.

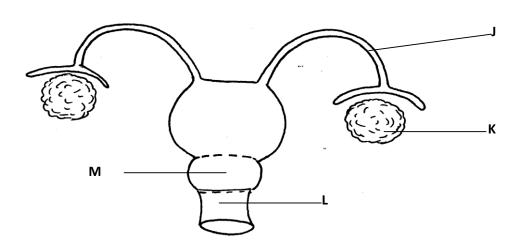
(2mks)

Give two reasons for holding animals for a short period in part H after dipping.

Outline three precautionary measures to be taken before dipping to ensure effective dipping.

(**3mks**)

22. The diagram below shows the reproductive system of a cow.



Study it carefully and answer the questions that follow.

(a) (i) Name the parts labeled J, K, L and M.

(2mks)

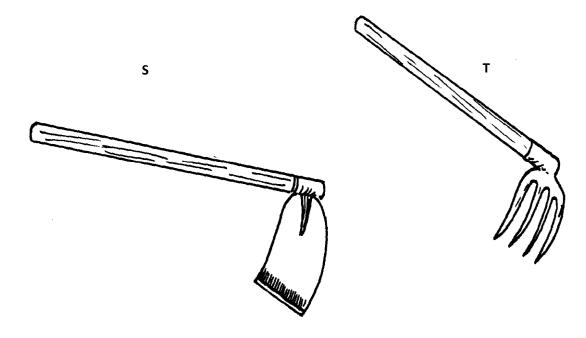
(ii) State the function of each of the parts labeled J and K.

(2mks)

(b) State three signs of parturition in cows.

(3mks)

23. Study the diagrams S and T below and answer the questions that follow:



(a) Identify the tools S and T.

(2mks)

(b) Under what conditions would you require to use tool **T** rather than tool **S**?

(2mks)

(c) State two maintenance practices for the above tools.

(1mk)

SECTION C (40 MARKS)

Answer any two questions from this section

24. (a) What are the advantages of farm mechanization? (6mks)

(b) Describe the parts of the engine water cooling system. (12mks)

(c) Name two main lubricants used in a tractor engine. (2mks)

25. (a) Differentiate between stress and vice in chicken. (2mks)

(b) How would a farmer control stress in poultry production. (9mks)

(c)Describe the procedure of processing wax from honey combs. (9mks)

26. (a) What is aquaculture? (2mks)

(b) Describe the methods used in fish preservation. (2mks)

(c)Discuss East Coast Fever under the following headings:

(i) Causal organism (1mk)

(ii) Symptoms (4mks)

(iii) Control measures (3mks)

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