AGRICULTURE PAPER 2 EXPECTED QUESTIONS IN KCSE

Comprises 6 KCSE prediction set exams (Class of KCSE March 2022).

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PREDICTION 1

Name:	Index No:
School:	Candidate's Sign
	Date:

443/2

AGRICULTURE

Paper 2(Theory)

FORM 4 2021

Time: 2 Hours

Instructions to Candidates:

- a) Write your name and index number in spaces provided above
- b) This paper consists of **THREE** sections: A, B and C
- c) All answers should be written in the spaces provided on this question paper.
- d) Candidates should answer the questions in English.

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 18	30	
В	19 - 23	20	
	24	20	
C	25	20	
	26	20	
	TOTAL SCORE	90	

SECTION A [30 MARKS]

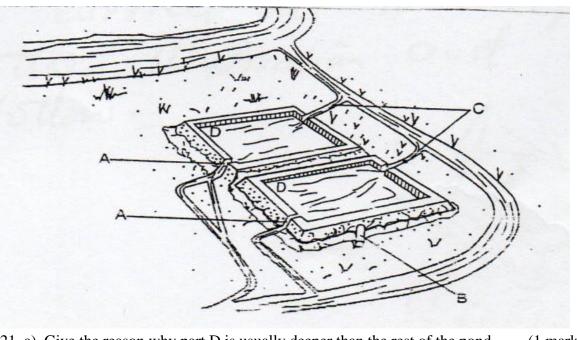
Answer All The Questions in The Spaces Provided.

1.	Name four exotic beef cattle	breeds most reared in Kenya.	[2 marks]
	(i)		

	(ii)	
	(iii)	
	(iv)	
2.	If a sow was successfully served on 27 th September 2019, state the date she is furrowed. (i)	[1mark]
	(ii)	
3.		[1 mark]
	(ii)	
4.		(2 marks)
	(ii)	
	(iii)	
	(iv)	
5.	Name two nutritional disease of cattle.	[1 marks]
	(i)	
6.	State four methods of preserving fish. (i)	[2 marks]
	(ii)	
	(iii)	
	(iv)	
7.	State four disadvantages of free range system of poultry rearing. (i)	(2 marks)
	(ii)	
	(iii)	
	(iv)	
8.	State four advantages of a Kenya top bar hive. (i)	[2 marks]
	(ii)	
	(iii)	

	(iv)	
9.	Name two diseases that affect female animals only. (i)	[1 mark]
	(ii)	
10.	Name four tick borne diseases (i)	[2 marks]
	(ii)	
	(iii)	
	(iv).	
11.	State four ways of vaccinating livestock. (i)	[2 marks]
	(ii)	
	(iii)	
	(iv).	
12.	Name three notifiable livestock diseases in Kenya.	[1 ½ marks]
	(i)	
	(ii)	•••••
	(iii)	
13.	State four ways of identifying livestock.	[2 marks]
	(i)	
	(ii)	••••••
	(iii)	
	(iv)	
14.	List four safety precautions taken into consideration when using with farm to (i)	
	(ii)	
	(iii)	
	(iv)	
	(IV)	• • • • • • • • • • • • • • • • • • • •
15.	State three causes of piglet mortality.	[1 ½ mark]
	(i)	
	(ii)	
	(iii)	

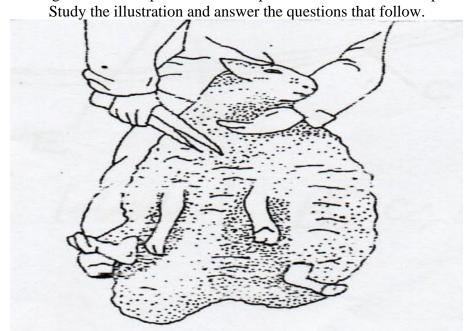
(i)	(2 marks)
(ii)	
(iii)	
(iv)	
17. Give four reasons why camels are suited to living in arid areas.	(2 marks)
(i)	
(ii)	
(iii)	
(iv)	
18. Name the parental breeds of the dorper.	(1 mark)
(i)	
19. A poultry farmer has maize containing 8% DCP and Soya beans contain farmer wants to make 100kg of a feed, using the person's method calculus which the two ingredients would have to be mixed to make a feedstuff (Show your working).	late the proportions in



21. a). Give the reason why part D is usually deeper than the rest of the pond.	(1 mark)
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(b). Name the part labelled A, B and C.	(1 ½ mark)
A	
В	
C	
(c). State three maintenance practices that should be carried out on the fish pond	. (1 ½ mark)
(i)	
(ii)	
(iii)	
(d). Give two reason why a fence should be constructed around the fish pond.	(1 marks)
(i)	
(ii)	

22. The following illustration represent a certain practice carried out in sheep management.



(a). Identify the practice.

(1 mark)

(b). Name the tool being used in carrying out the practice.

(1 mark)

(c). State two precautions that should be take when carrying out this practice. (2 marks)

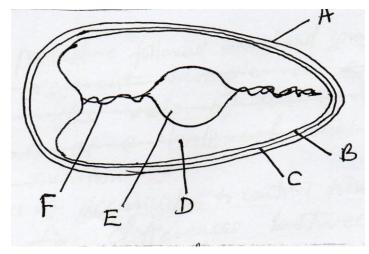
(i)

(ii)

(d). Name a breed of sheep reared for wool production. (1 mark)

(i)

22. The following is diagram of an egg. Study it carefully and answer the questions that follow.



(a). Name the part labelled B,C,D and F. B	(2 marks)
C C	
D	
F	
(b). State two qualities of the part labelled A that should be considered whe for incubation.	en selecting egg (2 marks)
(i)	
(ii)	
(c). What is the function of the part labelled E in a fertilized egg?	(1 mark)
SECTION C. (40 MARKS) Answer any two questions in this section in space provided at the back	
24. (a). Describe the feeding of bees under bee keeping.	(5 marks)
(b). Describe the management practices that a farmer should carry out to improproduction in a low yielding herd of dairy cattle.	ve milk (15 marks)
25. (a). Outline the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when hand spraying cattle to ensure effective of the procedure followed when he cattle	ective use of
accaricide to control ticks.	(10 marks)
(b). Outline five differences between exotic cattle breeds and indigenous cattle	breed. (5 marks)
(c). Outline five qualities of a good grain store. mark)	(5
26. (a). Describe the role of the various components of a balanced diet in livestones.	ock nutrition
20. (a). Desertoe the rote of the various components of a varianced that in rivest	(10 marks)
(b). Give five reasons of keeping livestock healthy.	(5 marks)

(c). Outline five predisposing factors of mastitis in lactating cows.	(5 marks)

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PREDICTION 2

NAME:	INDEX NO:
SCHOOL:	DATE :
CANI	DIDATE'S SIGNATURE:

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

PAPER 2

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) Write your name and Index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of THREE sections A, B and C.
- (d) Answer ALL questions in Section A and B.
- (e) Answer any TWO questions in section C.
- (f) Answers should be written in the spaces provided.
- (g) This paper consists of 10 printed pages.
- (h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.
- (i) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE SCORE
Α	1 – 19	30	
В	20 – 24	20	
С		20	
		20	
Total Score		90	

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

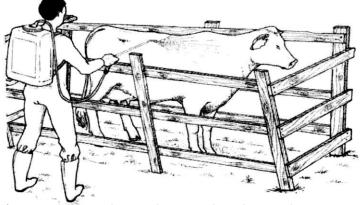
3. List two camel species reared in arid and semi-arid areas. (1) 4. Give four practices other than application of preservatives that can be carried out on we fencing posts to make them last long. (2)	
3. List two camel species reared in arid and semi-arid areas. 4. Give four practices other than application of preservatives that can be carried out on we fencing posts to make them last long. (2	
3. List <u>two</u> camel species reared in arid and semi-arid areas. 4. Give <u>four</u> practices other than application of preservatives that can be carried out on w fencing posts to make them last long. (2) 5. Give <u>four</u> physical characteristics of a dairy cow.	
fencing posts to make them last long. (2 5. Give <u>four</u> physical characteristics of a dairy cow. (2	
5. Give <u>four</u> physical characteristics of a dairy cow. (2	2mks)
	2mks)
6. State four reasons for steaming up a dairy cow 2 months before calving down. ((2mks)
7. State the causes of infertility in dairy cattle.	(2mks)

8.	 State <u>two</u> circumstances which would lead a farmer to cull a high producing dairy cow.(1m 	
9.	State the difference between crutching and raddling.	(2mks)
10.	Give <u>four</u> importance of keeping livestock healthy.	(2mks)
11.	How does isolation help in livestock disease control?	(1mk)
10	What are the offerts of paragitas on livestack?	(2mka)
12.	What are the effects of parasites on livestock?	(2mks)
13.	State <u>four</u> methods of controlling liverflukes.	(2mks)
14.	Give <u>two</u> feeding rearing practices in livestock.	(1mk)
15.	State three properties of a good vaccine.	(1½mk)
16.	Give <u>two</u> symptoms of brucellosis in cows.	(1mk)
4-		
17.	State three ways of increasing ploughing depth when using a disc plough.	(1½mks)
18.	(a) Explain the term Epistasis as used in breeding.	(½mks)
	(b) State three methods used in selection of livestock for breeding	(1½mks)

9. Give 	three factors that may inhibit milk let down in dairy cattle.	(1½mks)
	SECTION B (20 MARKS) Answer all questions in the spaces provided in this section	
0. Stud	y the following tools carefully and answer the questions that follow.	
<u></u>	J N M	
(a) I	dentify the structures labeled K, L, M and N.	
	, 	(½mk)
	л	(½mk)
	1	(½mk) (½mk)
(b) S	State the use of tools labeled K and N.	(2mks
	I	(2mks
 . (a)	Define the term feed conversion ratio as used in livestock production.	(1mk)

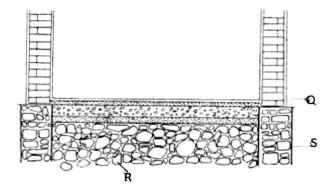
(b) A bull gained 100kg of live weight after eating 400kg of beef concentrates over a period

22. Below is an illustration of a livestock routine management practice. Study it and answer questions that follow.



` '	Otate the reason for earlying out the routine practice shown above.	, ,
	Give three factors that affect the effectiveness of the chemical used above.	

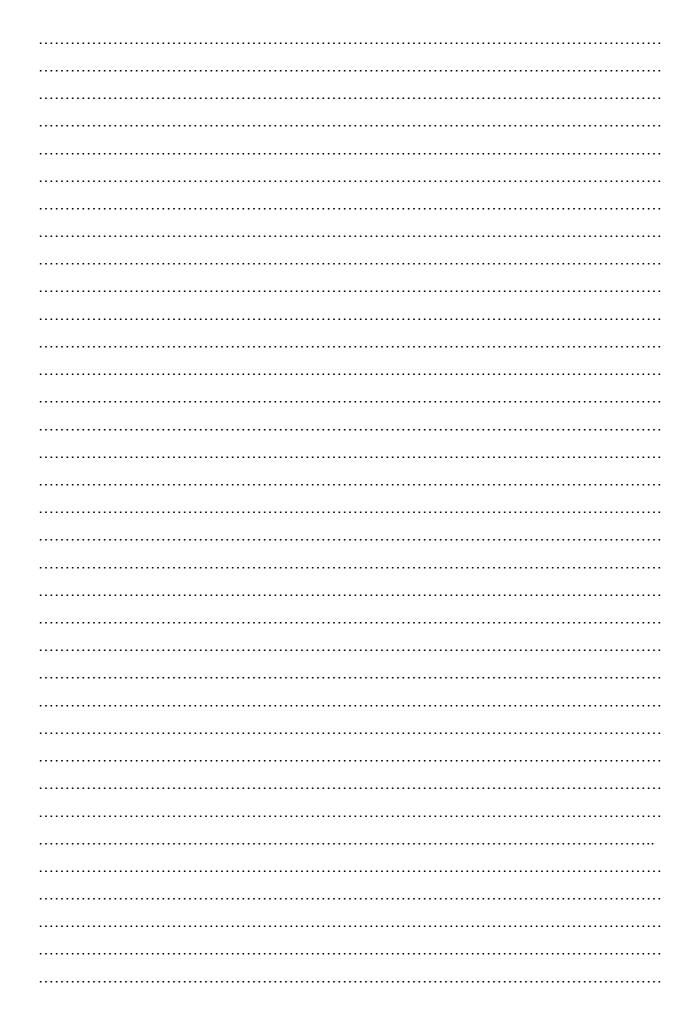
23. Study the illustration below and answer questions that follow.



(i)	Name the parts labeled Q, R and S.	(1½mks
	Q:	
	R:	
	S:	

(iii)	State four factors that determine the type of materials to use in c	onstruction of the
(111)	wall.	(2mks)
		(=::::0)
	ow is an illustration of a practice carried out in livestock production. Stu	dy it carefully and
ans	wer the following questions:	
(i)	Identify the practice illustrated above.	(1mk)
(ii)	Study <u>four</u> advantages of the above practice.	(2mks)
/:::\	State three limitations appointed with the above practice	(41/ mkg)
(iii)		(1½mks)
	SECTION C (40 MARKS)	
	Answer any two questions from this section in the spaces pro-	<u>vided</u>
25. (a)	Describe milk fever disease under the following sub-headings:	
,	(i) Animals affected.	(1mk)
	(ii) Causal agent	(1mk)
	(iii) Symptoms of attack	(4mks)
	(iv) Control measures	(4mks)
(b)	Explain the factors to consider when selecting livestock for breeding.	(10mks)

26.	Des	scribe the management of a day old layer chick up to the end of brooding.	(20mks)
27.			(10mks) (5mks)
		State <u>five</u> uses of solar energy.	(5mks)



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PREDICTION 3

NAME	IDEX	
NO	•••••	
SCHOOL	SIGN	DATE
443/2		
AGRICULTURE		
PAPER 2		
TIME: 2 HOURS		

KCSE PREDICTION 3

Kenya certificate of secondary education (k.c.s.e)

INSTRUCTIONS TO CANDIDATES

- Write your name, school and index number, in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above.
- This paper consists of three sections: A, B and C.
- Answer all the questions in section A and B and any two questions from section C.
- All answers must be written in the spaces provided in this booklet

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-18	30	
В	18-22	20	
С		20	
		20	
	Total score	90	

SECTION A

ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED

1.		at breeds found in Kenya.	(1 Mk)	
2.	Outline four reason	ns for maintaining farm tools a	nd equipment in good condition. (2 Mks))
3. 		oosing factors of foot rot.	(1 Mk)	
				•••
4.		t should be observed when mi	lking. (1 Mks)	
5.				
٠.				
6.		ow fill in the blanks to show th	e term used to refer to parturition and (2 Mks)	
	Type of animal	Act of parturition	Term to refer to the young one	ļ
	Cattle	Calving	Calf	
	Goats			
	pig			

7.	State four harmful effects of ticks.	(2 Mks)
8.	State four desirable factors to consider when siting a fish pond.	(2 Mks)
0	Name the most appropriate tools used in the following approxima	
9.	Name the most appropriate tools used in the following operations	
a)	Removing metal chippings in file (1mrk)	
b)	Cutting wood along grains (1mrk)	
c)	Branding (1mrks)	
10	. State four characteristic of Boran cattle (2mrks)	
10	. State four characteristic of Boran cattle (2mrks)	
••••		
••••		
••••		
••••		
11	. Name three methods of out breeding in livestock production ((1 ½ mark	as)
12	.What do you understand by the following terms as used I animal produc	tion
14	. That do you understand by the following terms as used I ainmai produc	

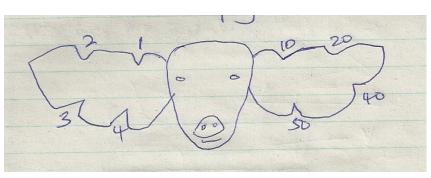
a) Caponisation (1mrk)
b) Bullock (1mrk)
c. Epistasis(1mrk)
13State four control measures of a liver fluke in livestock. (2 marks)
14What is "dry cow therapy" in dairy cattle management? (1/2 mark)
15State four causes of stress in poultry. (2 marks)
16.Distinguish between mothering ability and prolificacy as used in livestock breeding.(1mks)

17 Name two sources of protein for livestock nutrition.
(2 marks)
18State four signs of parturition shown by a in calf cow. (2 marks)

SECTION B (20 mks)

ANSWER ALL THE QUESTIONS IN THIS SECTION

19The diagram below shows a certain practice carried out on pig

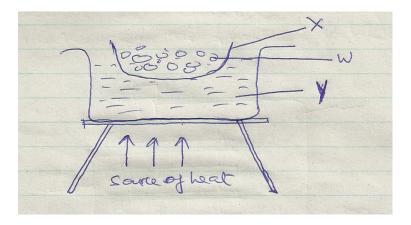


a)	Identify the practice illustrated above (1mrk)
b)	Draw another illustration depicting pig number 37(1mrk)
c)	Name the tool used to carry out the practice illustrated above (1mrk)
d)	State two other method of identifying piglet (2mrks)

i)
ii)
20. The diagrams below show some farm tools. study them and answer the question that follow.
A B C
tools: (2mus)
a) Name the tools.
(2 marks)
A
В
C
w
W
b) State the functional differences between tools K and W.
W b) State the functional differences between tools K and W. (1 mark)

d) (1 1	State one common maintenance practice carried out in tool C and W. mark)
	The diagram below shows a structure of the udder of a cow. Name the part labeled W, X, Y Z.(2 marks)
	w x y
	W
	X
	Y
••••	Z
b)	What is milk let down (1 mrk)
 c) l	Name two hormones that control milk let down in dairy cow. (2 mrk)

. Below is an illustration of a method of extracting honey from combs .Study the diagram and answer the question that follow .



a)	Identify the above method of extracting honey (1mrk)
• •	
b)	Give a reason why container x should not be heated directly (1mrk
c)	Name the parts labeled w and y(2mrks)
W	
Y	
d)	Besides the above method ,State one other method of extracting honey (1mrk)

SECTION C (40 MKS)

ANSWER ANY TWO QUESTIONS IN THIS SECTION

23(a) State five reasons why bees swarm.	(5 marks)
b) Describe five maintenance practices carr	ied out on a tractor battery (5 marks)
·	ied out on a fractor buttery. (5 marks)
_	

c) Explain fiv e	e factors considered when culling livestock.	(5 Mks)	
			•••••
•••••			
• • • • • • • • • • • • • • • • • • • •			
•••••			
		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
d. Explain five	e mechanical methods of controlling ticks.(5	mks)	
d. Explain five		mks)	
d. Explain five	e mechanical methods of controlling ticks.(5	mks)	
d. Explain five	e mechanical methods of controlling ticks.(5	mks)	
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d. Explain five	e mechanical methods of controlling ticks.(5	mks)	
d. Explain five	e mechanical methods of controlling ticks.(5	mks)	
d. Explain five	e mechanical methods of controlling ticks.(5	mks)	

24a) Describe the process of egg formation in chicken up to the point of laying. (
	•••••
	•••••
	•••••
b) State the differences between four stroke cycle and two stroke cycle engine. (5 l	
	••••••
	•••••
	•••••
	•••••
	•••••
	•••••

c) Describe the process of digestion in rumen.	(5 Mks)
	••••••
	••••••
25. a) Describe trypanosomiasis disease under the following sub-headings.i) Causal organism	(1 Mk)
i) Causal organism	•••••
i) Causal organism	•••••
i) Causal organism	(1 Mk)
i) Causal organism ii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
i) Causal organism ii) Animal attacked	(1 Mk) (5 Mks)
i) Causal organism ii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
ii) Causal organism iii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
i) Causal organism ii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
ii) Causal organism iii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
ii) Causal organism iii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
ii) Causal organism iii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
ii) Causal organism iii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)
ii) Causal organism iii) Animal attacked iii) Five symptoms of attacked animals	(1 Mk) (5 Mks)

iv) Three control measures	(3 Mks)
b) Control five control measures for cannibalism	(5 Mks)
(c) Explain five parts of a piggery unit (10mrks)	



PREDICTION 4

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

KCSE PREDICTION 4

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

INSTRUCTIONS TO CANDIDATES:

- Write your name, index number, school, class and admission number in the spaces provided.
- *Sign and write the date in the spaces provided above.*
- Answer all the questions in section A and B
- Answer any two questions in section C.
- Answers should be written in the spaces provided in this booklet.

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-20	30	
В	21-24	20	
С		20	
		20	
	TOTAL	90	

This paper consists of 11 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30MARKS)

1.	Give four livestock rearing practices that can be carried out in a crush.	(2mks)
2.	Name the part of the digestive system of poultry where insoluble grit is found.	$(\frac{1}{2}mk)$
		2
3.	Give two distinguishing external characteristics of Californian breed of rabbit.	(1mk)
4.	State four pre-disposing factors of livestock diseases.	(2mks)
		•••••
5.	Outline four functions of proteins in the body of an animal.	(2mks)
6.	State four observable features of indigenous cattle (<i>Bos indicus</i>)	(2mks)
7.	State four importance of creep feeding.	(2mks)
0	NT 6	(2.1.)
8.	Name four materials that are collected by bees.	(2mks)
		•••••
		•••••

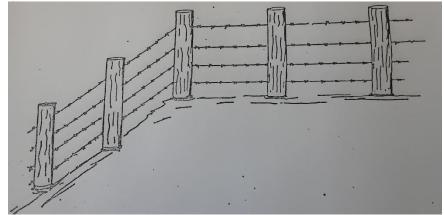
9. Give the function of each of the following parts of a fish pond.

	a)	Spillway	$(\frac{1}{2}mk)$
	b)	Outlet	$(\frac{1}{2}mk)$
10.		te four advantages of cross-breeding.	(2mks)
11.		me the part of the digestive system of a non-ruminant animal where cellulose is	broken
	dov	wn	$(\frac{1}{2}mk)$
12.		te three field conditions under which a disc plough should be used instead of a puldboard plough.	$(1\frac{1}{2}mks)$
13.	Sta	te four advantages of artificial incubation in comparison to natural incubation a hatching chicks.	as a method $(1\frac{1}{2}mks)$
14.		ve four maintenance practices carried out on the water cooling system of a tracto	or. (2mks)
15.	Sta	te four advantages of a four-stroke cycle engine.	(2mks)

16	. Give three reasons why drenching alone is not an effective method of controlling	; intestinal
	parasites in livestock.	$(1\frac{1}{2}mks)$
		-
17.	. Name three poultry diseases that are controlled by vaccination.	$(1\frac{1}{2}mks)$
		2
18	. Give the mineral whose deficiency causes the following disorders in livestock.	
10.	a) Anaemia	$\left(\frac{1}{2}mk\right)$
	a) / Machina	(2 /
	b) Parakeratosis	$\left(\frac{1}{2}mk\right)$
	o) Turanoruiosis	(2 /
19.	. Give three reasons why liming is done in fish ponds.	$(1\frac{1}{2}mks)$
		۷
20	. If records show that a rabbit was served on 27 th September 2020. Which date did i	
20.	. If feedras show that a rabbit was served on 27 september 2020, which date did i	$\left(\frac{1}{2}mk\right)$
		(2)
		· • • • • • • • • • • • • • • • • • • •

SECTION B (20 MARKS)

21. Below is an illustration of part of a wooden post wire fence. Study it and answer the questions that follow.



a)	Identify the type of wire in the illustration.	(1mk)
	On the illustration show by drawing how the corner post should be supported. On the illustration draw, label and give the function of a dropper.	(1mk) (2mks)
d)	Name the correct tool for tightening the wire during construction of the fence.	(1mk)

22. Observe the tools A, B and C illustrated below then answer the questions that follow.

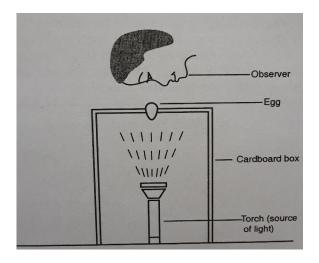


a) Name tools A, B and C and state the correct use of each tool. (3mks)

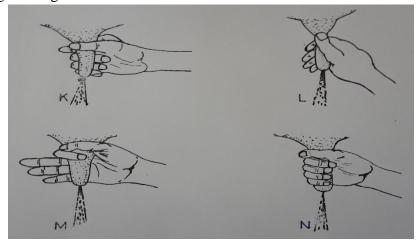
Tool	Identity	Function
A		
В		
С		

b) State two maintenance practices that should be carried out to ensure that to	
	good working condition. (2mks

23. Below is an illustration of an activity carried out by a poultry farmer keeping layers



- a) Identify the activity carried out using the set-up. (1mk)
 b) State four abnormalities in eggs that can be detected using the set-up above. (2mks)
 c) How can a farmer improve the following?
 i. Hardness of egg shells. (1mk)
 ii. Yellowness of the egg yolk. (1mk)
- 24. The diagrams K, L, M and N below show four possible ways of drawing milk from the teat of a cow during milking.



a)	Which diagram shows the proper way of drawing milk.	(1mk)
b)		(1mk)
c)	How would a milkman ensure that no milk remains in the udder at the end of	milking? (1mk)
d)	Give two practices carried out on milk immediately after milking.	(2mks)
SECT	ION C (40MARKS)	
	Describe the advantages of battery cage system of rearing layers. State and explain five factors affecting milk production.	(10mks) (10mks)
b) ava	State the functions of any six parts of a plunge dip. State and explain four ways through which power transmitted from the engine ailable for use. Explain five mechanical methods of controlling ticks.	(6mks) e is made (4mks) (10mks)
b) i	State five advantages of embryo transplant. Describe coccidiosis disease under the following sub- headings. i. Animals attacked ii. Causal organism ii. Symptoms v. Control measures	(5mks) (2mks) (1mk) (4mks) (3mks)
	ation containing 20% DCP for growing chicks is to be obtained by mixing ground	
	ning 10% DCP and fishmeal containing 50% DCP. Calculate the amount of ea	
in kilo	grams required to prepare 200kg of the feed.	(5mks)

PREDICTION 5

NAME	Dates
INDEX	Candidate Sign

443/2

AGRICULTURE

PAPER2

2HOURS

KCSE PREDICTION 5

Instruction to Candidates

- Write your name and index number in the space provided at the top of this page.
- > Sign and write the date of the examination in the space provided above.
- > C) This paper consist of three section A, B. and c.
- > Answer all questions in section A and B.
- Answer any two questions in section c.
- Answers should be written in the space provided.
- ➤ Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.
- > Candidates should answer the question in English.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES
			SCORE
Α	1-16	30	30
В	17-20	20	20
С		20	20
		20	20
	TOTAL SCORE	90	

SECTION A 30MRKS

Answer all the questions in this sections in the spaces provided

1. Name the most appropriate tools used in the following operations
a) Removing metal chippings in file (1mrk)
b) Cutting wood along grains (1mrk)
c) Branding (1mrks)
2. State four characteristic of Boran cattle (2mrks)
3. State two functions of a useful bacteria in livestock production (1mrk)
4. Name four function of lipid in an animal body (2mrks)

5. State two ways of reducing friction in moving part of farm tool (1mrk)
6. Outline four types of fence that can be used in mixed farm (2mrks)
7. Name three methods of out breeding in livestock production ((1½ marks)
8. Give two reasons for tailing in sheep production (1mrk)
9. Name any five internal parts of cow's udder (2 ½ marks)

10. Give five ways of transmitting livestock diseases (2 % marks)

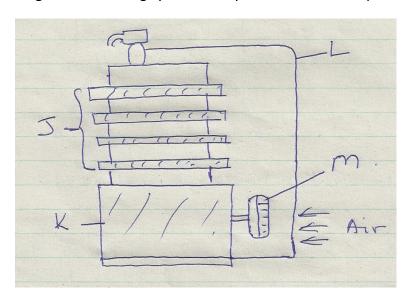
11. Give four features of improved grain bin (2mrks)
12. Give three types of calving complications (1 ½ mrks)
13. State four advantages of zero grazing as a grazing system (2mrks)
14. State two functions of a queen bee in a colony (1mrk)
14. State two functions of a queen bee in a colony (Innk)
15. Name four symptoms of anaplasmasis in livestock(2mrks

16 .What do you understand by the following terms as used I animal production .
a) Coponisation(1mrk)
b) Bullock (1mrk)
c. Epistasis(1mrk)

SECTION B (20Mrks)

Answer all the questions in the spaces provided

17. Below is a diagram of a cooling system .Study it and answer the questions that follow



a) Identify the type of cooling system illustrated (1mrk

b . Name parts labelled J, K , L and M (2mrks)
c. Name two problems associated with the type of cooling system illustrated above(2mrks) (i)
(ii) 18. Below is an illustration of a method of extracting honey from combs .Study the diagram and answer the question that follow .
100008. 10008. 1000
a) Indentify the above method of extracting honey (1mrk)
b) Give a reason why container x should not be heated directly (1mrk
c) Name the parts labeled w and y(2mrks)

d) Besides the above method ,State one other method of extracting honey (1mrk)
19The diagram below shows a certain practice carried out on pig
37 40
a) Identify the practice illustrated above (1mrk)
b) Draw another illustration depicting pig number 37(1mrk)
c) Name the tool used to carry out the practice illustrated above (1mrk)
d) State two other method of indentifying piglet (2mrks)
i)
ii)
20 .Below an illustration of a farm operation .Study it carefully and answer the question that follow.



a)	Identify the activity being carried out (1mrk)
b)	Give one other activity carried on the animal before the above operation is carried out (1mrk)
c)	Outline the procedure of carrying out the above operation (3mrks)
SECTIO	<u>ON C</u>
Answe	er any two questions in the space provided
21. Ou	tline management practice carried out in a fish pond to ensure maximum harvest of fish (7mrlk)
•••••	

b) Discuss the importance of farm mechanization (6mrks	
c) Discuss the short term maintenance practices carried out on a tractor (7 marks)	
22. (a) Explain the feature of a piggery unit (10mrks)	

b)	Explain the factor that influence the work output of a draught animal(10mrks)
23. a)Outline various method of controlling ticks(10 mrks)	
•••••	

b) Describe the management of growers up to the point of lay (10mrks)

PREDICTION 6

NAME	ADM NO	CLASS
SCHOOL	SIGN	DATE
443/2		
AGRICULTURE		
PAPER 2		
TIME: 2 HOURS		

KCSE PREDICTION 6

443/2 AGRICULTURE PAPER 2 TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- a) Write your name, index number and class in the spaces provided above.
- b) This paper consists of THREE SECTIONS, A, B and C.
- c) Answer all questions in sections **A** and **B** and two questions in section **C**.
- d) All your answers must be written in the spaces provided in this question paper.

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM	CANDIDATES
		SCORE	SCORE
A	1-17	30	
В	18-21	20	
С	22-24	40	
TOTAL		90	

This paper consists of 12 printed pages. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no pages are missing

<u>SECTION A: (30 MARKS)</u> <u>Answer all the questions from this section.</u>

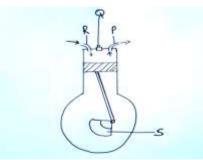
1.	State the use of each of the following tools (i) Strip cup:	$. (1^{1}/_{2} \text{mks})$
	(ii) Sickle:	
	(iii) Stock and die:	
2.	Name two reasons why rabbits hutches should be raised above the ground.	(1mks)
3.	Name two predisposing factors of coccidiosis,.	(1mks)
4.	Define the following terms as used in livestock production. (i) Crutching	(1mk)
	(ii) Farrowing:	(1mk)
5.	Name the infective stage of the liver flake in livestock.	(1mk)
6.	State four disadvantages of using human power instead of tractors as a source of pov	ver in a farm.
		(2mks)

7.	Name two tractors drawn implements attached to the tractor at one- point hitch.	(1mks)
8.	Distinguish between pen mating and flock mating in poultry.	(2mks)
9.	Give two ways in which proper breeding and selection helps to control livestock diseases.	(1mk)
10.	(a) Name two types of feed additives.	(1mk)
	(b) Give two reasons why it is important to include additives in commercial feeds.	(1mk)
11.	(a) Name four pig breeds commonly reared in Kenya.	(2mks)
	(b) Name four characteristics of dairy cattle breeds.	(2mks)

12	. Outline four qualities of eggs used for incubation.	(2mks)
13	. (a) Name two hormones that control milk let down in dairy cow.	(1mk)
	(b) State four factors that influence milk let – down.	(2mks)
14	. State four reasons why bees may swarm from a hive .	(2mks)
15	. Name three sources of water in the body of livestock.	(1 ¹ / ₂ mks)
16	. Name four cattle diseases whose outbreak calls for quarantine.	(2mks)

17.	State two functions of ventilation in a pig house.	(1mk)
	SECTION B: (20MARKS) Angwer all the questions from this section	
18.	Answer all the questions from this section. The diagram below shows a farm implement used by small scale farmers for several open for the fall of the section.	rations in the
	farm. Study it carefully and then answer the questions that follow.	
	A B	
	(a) Identify the implement.	(1mk)
	(b) State the function of the part labeled A, B and C. A	(3mks)
	(c) Apart from land preparation, state any other one operations that can be done using the implement.	e above (1mk)

19. The illustration below shows an engine cylinder.



(i) Identify	the parts	labeled P,	Q,	R and S
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(2mks)

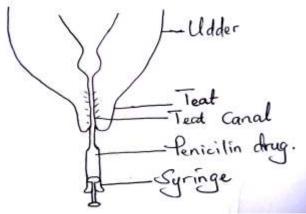
P	•	 	 		٠.			•		•		•		•		•					•		•	•		•					•		 •		•	•	 •	•			
Q			 •		•				•		•		•							 		• •						•		•				• •						 . .	•
R		 •	 	•		•	•			•					•		•		• •	 •				•		•			•			•	 •		•	•	 			 •	•

(ii)	Give the function	of the part labeled	Q above.	
(ii)	Give the function	of the part labeled	Q above.	

(1mk)

(iii) Give two disadvantages of four-stroke engines.	(2mks)

20. The activity illustrated below indicates a task undertaken in farm animals.



(i) Name the above activity	(1)	1)) Name	the	above	activity	Ι.
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(1mk)

(ii) State the importance of the above activity.	(1mk)
(iii) Name the disease controlled by the above practice.	(1mk)
(iv) Name two other diseases that only attack female cattle.	(2mks)
21. Below is a diagram showing parts of a fence. Use it to answer the questions that follow.	
(a) Identify the type of fence above.	(1mk)
(b) Name the parts labeled H and J. H	(2mks)
J	(1mk)
(d) On the diagram, draw a dropper in the right position.	(1mk)

SECTION C: (40MARKS)

Answer any two questions from this section on the spaces provided after the last question.

22	. (a) Discuss bloat under the following sub-headings.	
	((i) Species of animals effected.	(3mks)
	(ii) Causes of the disease.	(4mks)
	(iii) Symptoms	
	(iv) Control.	(2mks)
	(b) Discuss various types of tools required to construct a barbed wire fence.	(5mks)
23	. (a) Describe various cultural uses of livestock.	(8mks)
	(b) Describe various livestock rearing practices.	(12mks)
24	. (a) State four functions of vitamins in livestock nutrition.	(4mks)
	(b) Tabulate the differences between digestion in ruminants and non-ruminants.	(6mks)
	(c) Discuss the components of the cooling system of a tractor.	(10mks)
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