MARAKWET WEST DISTRICT

443/1

AGRICULTURE

Paper 1

July/August - 2015 **Time: 2 Hours**

SECTION A: 30 MARKS

Answer all questions in this section in the spaces provided.

(2mks) (1mk) (1mk) (2 ½ mks) (1mk) soil. (1mk)
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SECTION B (20 MARKS)

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

20. The inventory for millennium farm as of 1st June 2010 was as follows;

Cash at hand	Kshs.5,000
Layers	Kshs.30,000
Dairy cattle	Kshs.120,000
Beans in store	Kshs.7,000
Calves	Kshs.15,000
Building	Kshs.75,000
Machinery	Kshs.95,000
Land	Kshs.200,000

On the same day the following information was obtained from the farmers records.

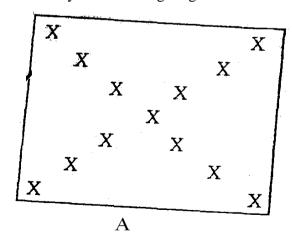
Bank Loan Kshs.213,000
Egg sales on credit Kshs.10,000
Milk sales on credit Kshs.13,000
Vegetable sales on credit Kshs.5,000

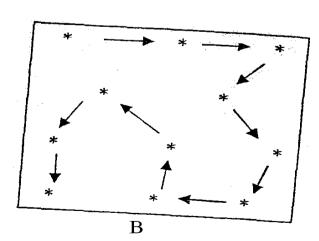
Farm inputs purchase on credit Kshs.19,800
Wages payable Kshs.5,600
Taxes payable Kshs.750
Cash in Bank Kshs.20,000
Interest payable Kshs.2,000

Prepare a balance sheet for the farm

(5mks)

21. Study the following diagrams of soil sampling and answer the following question.





	a)) Identify	y the	sampling	g methods	labeled
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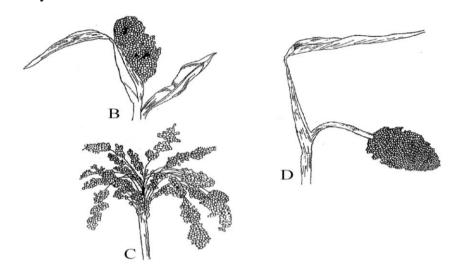
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b) Describe the procedure followed during soil sampling.

(3mks)

22. Diagrams B, C and D below shows the panicles of three sorghum varieties growing side By side.



- i) Which of the **three** varieties of sorghum is least likely to be damaged by the birds?
 - (½ mk)

ii) Give a reason for your answer in (i) above.

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

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

23. Study the weeds illustrated below and answer the questions that follow.



a)	Identify the weeds shown.		
	A		
	R		

		C		
		D		
	b)	A	one economic importance of each of the weeds A and B.	
	c) d)	State	the advantage of weed C on the farm. is weed D difficult to control.	(1mk) (1mk)
24.			ions below represents types of soil structures. Study them carefully and uestions that follow.	
	a)	i)	Identify the soil structures X and Y shown above.	(1mk)
		ii)	Which of the soil structure you have named above is not suitable for	
			growing maize.	(½ mk)
		iii)	Give one method of improving the soil structure you have mentioned in	
			(ii) above.	(½ mk)
			SECTION C (40 MARKS)	
	Ansv	ver any	two questions from this section in the spaces provided after each questi	ion.
25.	a)	Desc	ribe the establishment of grass pasture from the time the land is ploughed	
		Using	g a moulboard or Disc plough to the time the pasture is ready for grazing.	(11mks
	b)	What	t are the advantages of mixed grass legume pasture over a pure grass	
		pastu	re?	(9mks)
26.	a)	Desc	ribe ways in which cultural measures control crop diseases.	(8mks)
	b)	Expla	ain the problems of marketing Agricultural produce.	(8mks)
	c)	State	how grass cover conserves soil	(4mks)

27. a) Explain ways in which the farmer can deal with risks and uncertainities. (8mks)

(12mks)

b) Explain **Six** factors considered when spacing crops.

MARAKWET WEST DISTRICT

443/2

AGRICULTURE

Paper 2

July/August - 2015 **Time: 2 Hours**

SECTION A: 30 MARKS

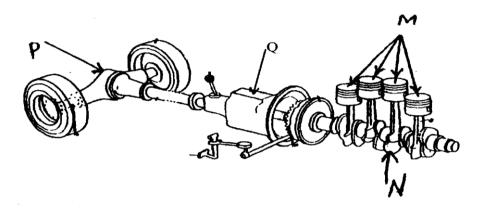
Answer all questions in this section in the spaces provided.

1.	State Four safety precautions that should be observed in working with workshop tool	s. (2mks)
2.	Apart from high butterfat content, give Two other good qualities of jersey breed over Fresian breed.	(1mk)
3.	State Four factors that influence rate of respiration in farm animals.	(2mks)
4.	Give Two feeding characteristics of goats which make them less vulnerable to international parasites.	ul (1mk)
5.	Give Four reasons of feeding livestock on a balanced diet.	(2mks)
6.	Differentiate between crutching and ringing in livestock management.	(2mks)
7.	Give Three reasons that will make a farmer give milk to kids using artificial methods	. (1 ½ mks)
8.	State Two reasons for spreading a Damp proof course (DPC) on foundation during	
	construction of farm buildings.	(1mk)
9.	Give Two signs that indicate a cow has died of anthrax disease.	(1mk)
10.	Give Two factors a farmer would consider when sourcing day-old chicks.	(1 ½ mks)
11.	State Four pre-milking practices in a dairy herd.	(2mks)
12.	Name Three methods of harnessing tractor power.	(1 ½ mks)
13.	a) Name Three hormones that influence milk synthesis.b) State Three factors that make a lactating cow to withhold milk.	(1 ½ mks) (1 ½ mks)
14.	Mention Two uses of spring-tine harrow in the farm.	(1mk)
15.	State Four functions of the Lubrication system in a tractor engine.	(2mks)
16.	Give Two functions of drones in a bee colony	(1mk)
17.	Give Two problems associated with lambing	(1mk)
18.	Give Four pre-disposing factors of foot rot disease in sheep	(2mks)
19.	Define the following terms	(2mks)
	 i) Strategic treatment ii) Tactical treatment ©2015 @warrid Consultants @ O @O V 67593 00200 Wairahi 0722614502/0733494581 /uwww becetonical so be 	

SECTION B (20 MARKS)

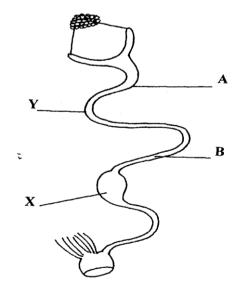
Answer all questions

20. Study the illustration of power transmission of a tractor below.



a)	Identify and name the parts labeled.	(1 ½ mks)
	M	
	N	
	P	
b)	State Three functions of part Q.	(3mks)

21. Below is a diagram representing the reproductive system in poultry. Study it and answer the questions.



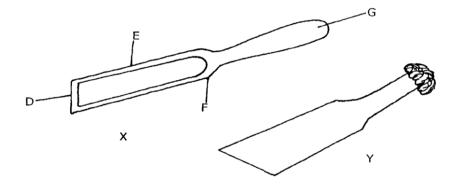
a)	Name the parts labeled A, X and Y			
	A			
	X			

Υ.....

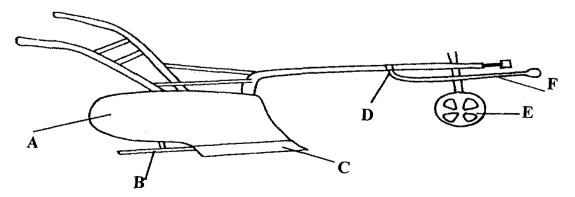
- b) Name **Two** substances added to the egg at section labeled Y. (2mks)
- c) How long does the egg stay at section labeled X. (½ mk)
- d) Below is a diagram of an egg. Which part of the egg represented by letters Q and R would come out first during the laying process. (½ mk)



22. Below is an illustration of workshop tools, study them carefully and answer the questions that follow.

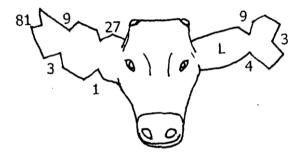


- a) Identify tool X and Y (½ mk)
- b) Name the parts labeled D, E, F and G (2mks)
- c) Name the tool used for sharpening tool X. (½ mk)
- 23. Study the diagram below of an ox-plough and use it to answer the questions that follow.



a)	Name the parts labbelled B, D and F	$(1 \frac{1}{2} \text{ mks})$
	B	
	D	
	F	
b)	State the functions of the parts labeled A, C and E	(1 ½ mks)
	A	
	C	
	E	
c)	State Four advantages of using the Ox-plough over the tractor drawn mouldbo	ard
	plough	(2mks)

24. Study the diagram below carefully and answer the questions that follow. The number on the right ear represents litter number while the left ear number represents the individual number.



- i) Name the livestock routine practice shown above. (½ mk)
- ii) State **Two** reasons why farmers carry out the livestock routine practice shown in the diagram above. (2mks)

SECTION C (40 MARKS)

Answer any Two questions

25.	a)	Expla	ain any Five management practices a beef farmer should carry out during	
		droug	ght season to improve production.	(5mks)
	b)	Expla	ain Five advantages of rearing birds through a battery cage system.	(10mks)
26.	a)	Write short notes on foot and mouth disease under the following sub-headings.		
		i)	Causal organism	(1mk)
		ii)	Mode of transmission	(1mk)
		iii)	Symptoms of attack	(4mks)

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		iv) Control Measures	(4mks)
	b)	Explain the importance of keeping livestock health.	(10mks)
27.	a)	Describe the procedure of establishing a fish pond.	(10mks)
	b)	Describe the life cycle of a three host tick	(1mk)
	c)	State the factors that affect digestibility	(3mks)