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AGRICULTURE

PAPER ONE

PRE-TRIAL EXAM 2016

TIME 2 HRS

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INSTRUCTIONS

- 1) Write your name and admission number.
- 2) Answer all questions in section A and B and two questions ONLY in section C.
- 3) Write your answers on the spaces provided
- 4) Use English language
- 5) Cancelled work will not be marked
- 6) This paper consist of 9 printed pages.

State four ways in which chemical kills the weed in the crop field. (2mks		precautions	when har	idling inoculated	d seeds.	(lmk)
Explain the meaning of the following post-harvesting practices carried out in crops such as (½mk) (i) Dusting: (ii) Threshing: (iii) Cleaning: Give four characteristics that a good plant used as green manure should possess. (2mks) State four ways in which chemical kills the weed in the crop field: (2mks)	· 	·	·		:	
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(ii) Threshing: (iii) Cleaning: Give four characteristics that a good plant used as green manure should possess. (2mks) Cleaning: Cleaning:	(i) T)					(½mk)
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	tate four	ways in whic	ch chemic	al kills the weed	anth pply in the crop field.	SE

State three ways in whi	ich primary tillage destroy s		
			(1½mk
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la per la companya di seriesa di Seriesa di seriesa di s			
State four ways of impr	oving labour productivity in	a tea plantation	(2mks)
		a wa prantition.	(211165)
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	s that influence crop produc	tion. RANCH mrniApplu	(2mks)
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Differentiate between the	A. Disc award e	tion. RANCH Orestation.	ISE

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3. Give <u>th</u>	ree reasons w	hy an invent	ory should be up	odated from time to tin	ne.	(1½mks
						·
(a) Wh	at is meant by	the term ioir	2t noodeed	ed in production econo		
· (a) ii ii	at is incant by	are remi lon	n product as use	d in production econo	mic?	(1 mk)
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				Transfer of the second		
(b) List	two joint-prod	lucts in crop	production.			(1mk)
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	MAI	Disc o	production. Veril cari ge conservation.		SE.	
er in some inn and a soul	MAI	Disc o	worll corr		SE	
	MAI	Disc o	worll corr	in in page	SE:	
	MAI	Disc o	worll corr	i Alapiy	SE	
	MAI	Disc o	worll corr		SE	(1mk) (1½mks)
	MAI	Disc o	worll corr			
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(a) Men	tion three met	hods of forag	verlear: ge conservation.			(1½mks)
(a) Men	tion three met	hods of forag	verlear: ge conservation.			(1½mks)
(a) Ment	tion three met	hods of forag	verlear: ge conservation.			(1½mks)

17. St	udy the following ty	pes of vegetable crops:-		
	Cowpea			
	Spring enion			
	Pigeon peas			
oje∵g	Pepper			
	Tulips			
Ide	entify:-			
36	Leaf vegetable			
(ii)	Fruit vegetable			(½m
X11.7	Fruit Vegetable			(½ 17
O TO		19 N		
Distribution	CTION B (20 MAR			
		n the spaces provided in	a transfer to the second of th	
3. The	e diagram below sho	ws the result of an exper	iment carried out by a form or	e student. The stude
mix	ced water with sodiu	m carbonate then added	in a soil sample after which th	erough shaking was
		vere left to settle on a ber		and a primiting was
				CE
		N CONTRACTOR	M	BE .
		July 15 Ver	Learn Apply	
		200100000000		
			- Silt and clay particles	
	en e	10000	P	
	and the first of the second of			
	Street of the st		Gravel particles	
r n s s s s s	What was the aim	of the above experiment		(½ mk
				·
.12	es statistics			
(b) .	lentily the layers	represented by M, N and	P.	(1 ½ mks
M		and the second propagation of the second propagation of the second propagation of the second propagation of the		
N				
19	unitra di Santa di Arta di Santa di Santa di S			
47				

(c)	What was the role of sodiu	ım carbonate use	d in the experiment?	· (½ mk)
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• .			·	
- 10 Tha	Callandan information was a	datainad Garagetta		C C
	following information was o march 2011	ntanied from the	records of fair hima's i	arm for the year ended on
	Particulars		kshs	<u>:</u>
	Opening Valuation		100,000	
	Calves		72,000	
	Hired Labour		21,000	:
	Sales of milk		13,000	
	Sales of cereals		33,000	
	Rent		9,000	
	Feed		5,300	
	Seed		1,700	
	Fertilizers		4,700	en de la companya de La companya de la co
	Sales of Vegetables		9,300	
	Sales of poultry		1, 800	
	Sales of fruits		700	
	Pesticides Tara		1,250	
	Depreciation ————————————————————————————————————	Julian Taka	650	S E i za e i a e e
	Repair and Maintenance		950	a. 18 基件基金的 的复数1000 (1) 11
	Interest on loans	: over!Lea	rn ₂₀₀ ply	
	Closing Valuation		9,0000	
		hova propara n		for Mr. Trustale forms for the
a) ;	using the information given a year ended 31 st March	bove, prepare a	brothe and toss account	
•	year ended 51 iviatest			(7mrks)

	Tally was in a	ate whether Mr. Juma's farm made a profit or loss	(½ mark)
Study the	following fiel	d practice.	
	- Ro		
Ø			
(a) Ident	ify the practic	e carried out in the above diagram	(1 marke)
(a) Ident	ify the practic	e carried out in the above diagram.	(1 marks)
(a) Ident	ify the practic	e carried out in the above diagram.	(1 marks)
(a) Ident	ify the practic	e carried out in the above diagram.	(1 marks)
	<u>Iour</u> reasons t	e carried out in the above diagram. for carrying out the above practice.	(1 marks) (2r arks)
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	<u>Iour</u> reasons t	for carrying out the above practice: Ditte care ill care ill pply	
	<u>Iour</u> reasons t	for carrying out the above practice.	(2r arks)
	<u>Iour</u> reasons t	for carrying out the above practice. Division of the above practice.	(2r arks)
	<u>Iour</u> reasons t	for carrying out the above practice: Ditte care ill care ill pply	(2r arks)
(b) Give	<u>four</u> reasons	for carrying out the above practice: Discosion II carni Appli	SE (2r arks)
(b) Give	<u>four</u> reasons	for carrying out the above practice. Division of the above practice.	(2r arks)

21. A farmer wishes to change her enterprise from vegetable production to dairy cattle <u>rearing</u>. The cost s she incurs in growing of vegetables is as follows:-

Weed Sh. 200
Harvesting Sh. 300
Fertilizer Sh. 500
Seeds Sh. 400

When she changes her enterprises to dairy cattle rearing, she incurs the following:-

Cost of buying cattle Sh. 5000

Disease Sh. 200

Salary of milk person Sh. 2000

Fencing sh. 500

The revenue she got when growing vegetable is 10,000;

In dairy production, he revenue she gets from milk sales is Shs. 15,000 and manure sales shs. 1,000. Draw up the partial budget and indicate the effect of the change. (Show your working) (5marks)

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SECTION C

Answer any two questions in the spaces provided

22. (a) Describe the production of beans under the following sub-topics:

i. Planting (2marks)
ii. Field Management Practices. (4marks)

iii. Harvesting. (2marks)

b. Outline the safety measures in the use of chemicals to minimize environmental pollution.

(8marks)

(c) Explain four qualities of a good silage.

(4marks)

23. (a) Explain five biological factors that influence soil formation.

(10rgarks)

(b) Describe the causes of crop diseases.

(5marks)

(c) Describe the field production of tea under frame formation by pegging method. (5m

24. (a) Describe the procedure of harvesting sugarcane.

(5marks)

(b) Explain how farmers overcome risks and uncertainties in farm business.

(7marks)

(c) Use the information given in the table below to answer the questions that follow.

Ta-4:11- 1	Discountil earni	A TOTOW,
Fertilizer inputs (units)	Potato yield (bags)	Marginal product (bag)
0	50	, , , , , , , , , , , , , , , , , , ,
.1	62	12
2	66	4
3	68	2
4	69	1
5	69	0

The cost of fertilizer is shs. 320 per unit and the price of potatoes is shs. 200 per bag.

i. At what point of fertilizer application should the farmer be advised to stop investing in potatoes?

(Show your work) (5marks)

ii. Give a reason for your answer in (i) above. (2marks)

iii. At what level is net revenue highest? (1mark)