ANTONY Jauly

HELIN

Candidate's Examination No....

THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION AND VOCATIONAL TRAINING FORM TWO SECONDARY EDUCATION EXAMINATION, 2012

0034

AGRICULTURAL SCIENCE

TIME: 2 HOURS

INSTRUCTIONS

- 1. This paper consists of sections A and B.
- 2. Answer ALL questions.
- Read the instructions given under each section carefully.
- 4. ALL answers must be written in the spaces provided.
- 5. Write your examination number at the top right corner of every page.
- 6. ALL writing must be in black or blue ink.
- 7. -Cellphones and calculators are not allowed in the examination room.

QUESTION NUMBER	SCORE	SE ONLY INITIALS OF EXAMINER
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3		170 - 5 L 3045
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This paper consists of 8 printed pages.

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SECTION A (30 MARKS)

Write TRUE for a correct statement or FALSE for a statement that is not correct. An immediate care to a person who has been injured during farm (i) operation when medical care is delayed is known as First Aid Kit. PALSE Weeds are totally harmful to plant crops and farm animals. Thus (iii) One advantage of the house and run poultry keeping system is that it (iii) does not need equipment for feeders and waterers. Land as a factor of production includes the soil, minerals, rivers, (iv) lakes, pests, vegetation and the climate of the place. Forestry, Fishery and Book-keeping are branches of Agricultural (v) Science FALSE A fertile garden soil which is rich in organic matter possesses a low (vi) bulk density. FALSE In a farm workshop all machines with belts and gears should be fitted (vii) with guards in order to increase efficiency. Thinning is necessary for vegetables which are grown in situ. (viii) The major disadvantage of keeping poultry under deep litter system is (ix) that birds may develop cannibalism and egg eating habits. Subsistence farmers tend to be reluctant to abandon their traditional (x) farming practices for fear of risks and uncertainties. ..

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Match the items in set A with those in set B by writing the correct letter below the corresponding question number in the table provided.

	SET A	SET B	
(i)	A soil component that sticks	A. Candling	
,	when wet and cracks when dry	B. Clay	
i)	Any alteration in properties of agricultural products by	C. Competitive prices	
	physical, chemical and biological means	D. Dehorning	
ii)	Bedding materials which are	E. Drying off	
	spread on the poultry house to make birds comfortable	F. Equilibrium price	
iv)	Joining a scion to a root stock	G. Farmgate price	
v)	Occurs when demand and supply of agricultural products	H. Grafting	
-	are balanced	I. Hardening off	
vi)	Prices which traders pay when they buy goods at the site of	J. Harnessing	
rii)	production Removing side shoots in tomato	K. Incubating	
-	plants	L. Litter	
viii)	The process of hitching implements in draught animals	M. Loam	
ix)	The process of determining the quality of eggs	N. Processing	
x)	The process whereby shade on seedlings is removed and water	O. Pruning	
R.	supply reduced to accustom	4	
HIK	seedlings for the harsh field	0.F	
	environment.	10-1-1	
		45.775	

ANSWERS	3				1 24	1 Jersi	3)(h	14576	-	1
SET A	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
SET B								28	3	105

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Wr	ite the letter of the correct ans	wer in the box provided for each questio		
(i)	When selecting a site for es	tablishing a monthly		
	When selecting a site for establishing a vegetable garden you A. occurrence of pests and diseases			
	B. presence of vegetations	- mocases		
	C. prevalence of thieves	A section of		
	D. reliability of water sour			
(ii)	A cropping system which er	nables a farmer to apply various cultural		
	practices without much pro	blems in a larmer to apply various cultural		
	A. crop rotation	Dicinis is:		
	B. interplanting	16.7		
	C. monocropping	· 92		
	D. relay cropping.	15		
		91 1- 1		
(iii)	The most important soil con	Iponent to a farmer:		
	v. an	-Ponent to a farmer is:		
	B. mineral particles			
	C. organic matter			
	D. water.			
	water.			
ti-A	78	the sale and the sale of the s		
(iv)	78	occurs when goods under consideration		
(iv)	Perfectly inelastic demand of have:	occurs when goods under considerations		
(iv)	Perfectly inelastic demand of have: A. a lot of close substitute			
(iv)	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance			
(iv)	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes			
(iv)	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance			
	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes D. no importance.	S CONTROL OF THE CONT		
(iv) (v)	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes D. no importance. When the Tanzanian govern	S CONTROL OF THE CONT		
	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes D. no importance.			
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	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes D. no importance. When the Tanzanian govern godowns it aims at: A. cleaning its godowns B. decreasing supply	ment sells some of its crops stored in		
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(v)	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes D. no importance. When the Tanzanian govern godowns it aims at: A. cleaning its godowns B. decreasing supply C. increasing price D. increasing supply. Chicken of local breeds grow are becoming popular in tow A. their meat is tender B. they are cheap	ment sells some of its crops stored in w slowly and are small in size but nowad ons. This is because:		
(v)	Perfectly inelastic demand of have: A. a lot of close substitute B. a lot of importance C. no close substitutes D. no importance. When the Tanzanian govern godowns it aims at: A. cleaning its godowns B. decreasing supply C. increasing price D. increasing price D. increasing supply. Chicken of local breeds grow are becoming popular in tow	ment sells some of its crops stored in w slowly and are small in size but nowad ms. This is because:		

		Candidate's Examination No
4	(vii)	Which of the following tractor engine parts make a rotary motion? B. Cylinders
		A. Crank shaft "s dactor engine parts make a rotary motion?
		B. Cylinders C. Oil sump
		D. Piston.
	9	The second secon
	(viii)	According to a system used by the International Society of Soil Science,
		soil particles are classified according to their:
		A. diameters
		B. porosities
0		C. structures
i		D. textures.
9	(ix)	The recommended grani-
		The recommended grazing system in areas with high population densities is:
		A. continuous grazing
		B. rotational grazing
		C. tethering
		D. zero grazing.
	141	The meet
	(x)	The weakness of human beings as sources of farm power is:
		B. they are naturally lazy and subject to social problems C. they get fired and their ability to
		C. they get tired and their ability to supply power is limited D. they need food and their ability to supply power is unlimited.
		ability to supply power is unlimited.
		Chamien 1
		SECTION B (70 MARKS)
4	Name	on the standard and a
	farm or	an instrument or tool which you can use in performing the following
	(a)	Turning the soil, making ridges, weeding and uprooting stumps.
		Hand the
	(b)	Levelling the soil, removing stones and weeds Rokes
	(c)	Turning and spreading manure.
	(d)	Digging shallow holes and transals at
	(c)	Digging shallow holes and transplanting seedlings.
	(f)	Trimming hedges.
		rial vesting cereals and cutting grass hanga
	(g)	Watering seedlings.
	(h)	Sawing wood along the grain
	- (i)	Cutting and shaping cold metals. Connecting pipes in straight line
	(i)	Connecting pipes in straight line Cougling
		The state of the s
		100

	V
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5. (a) Define the following term	s:
(i) Soil Isthon the	TO THE PORT OF AND CHIEFLY CUM
(b) What is the function of or	ganic matter in the soil?

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6. (a) Define the following terms	as used in crop production:
(i) Plant population. \ST	retalal mumber of plant per unitares
(ii) Staking	
(iii) Spacing	
his/her homestead. The s survived, calculate the plant	ablished a 0.25 ha of a cabbage project around pacing used was 60 cm x 60 cm. If all plants to population in the garden.
ayer Wings	a deal fully and
	- Triple - Section
	The second secon
	A NOTE OF THE PARTY OF THE PART
we have a series	Pattern Call No.
(a) Briefly explain the meaning of	of the term "Crop pest".
- HEL LOVE - O LOUNT	Sound which come of now
or person to clob I	Date of Pathogen process against
***************************************	Le voir Mac Serve
	A Mosco-Sel city

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≠ (b)	Categorize four direct harmful effects of insect pests on crop plants.
	(i) Chewing
	<i>[midfin7.</i> (ii)
	(iii) Perting
13	(iv) Succession Juice
(c)	Mention five cultural methods used to control insect pests in the field.
8. (a	(ii) Brotogical helded Mulding (iii) Cultural helded cop rotation (iv) Integrated helded because (iv) Legislative intertails westign Define the term "Ration" as used in livestock husbandry: Ration 15 the clainty among the Feed given to gammo
	enail at point tor ourgant
(b	A form two student wants to formulate 400 kg of poultry meal containing 14% crude protein. In the store there is maize bran containing 18% crude protein and sunflower seed cake containing 20% crude protein. By using the Pearson Square method, determine the amount of sunflower seedcake and maize bran he/she will use in preparing the ration.
1	and make brain not over

- 8. (a) Define the term "supply".
 - (b) Mention nine factors that may cause a change in the supply of agricultural products in your area.
- Mention five advantages of using animal power over tractor power in farm operations.
- (a) Briefly explain what will happen to plant crops when the following practices are applied:
 - (i) Over watering of tomato seedlings in the nursery

(ii) Tregular watering in tomato plants

(iii) Excessive application of farm yard manure in carrot plants

Pformation of unwanted breaks

(iv) Excessive application of nitrogenous fertilizers to the

(b) Arrange the soil separates: clay, coarse sand, fine sand and silt according to their increasing water holding capacity.