Candidate's Examination Number....

THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL FORM TWO SECONDARY EDUCATION EXAMINATION

0034

AGRICULTURAL SCIENCE

Time: 2 Hours

Monday, 01st December 2014 p.m.

Instructions

- 1. This paper consists of ten (10) questions in sections A and B.
- 2. Answer all questions.
- 3. All answers must be written in the spaces provided.
- 4. All communication devices are not allowed in the examination room.
- 5. All writing must be in black or blue ink.
- 6. Write your Examination Number at the top right corner of every page.

FOR	EXAMINERS' USE (
QUESTION NUMBER	SCORE	EXAMINERS' INITIALS
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SECTION A (30 Marks)

For each write its 1	of the item (i) $-$ (x), choose the correct a etter in the box provided.	nswer from among the given alternatives	and
A B C	ting, threading and fitting of pipes is know soldering plumbing forging welding.	n as	
A (B)	of the following are draught animals excep Oxen Donkey Camel Giraffe.	t	
A B C	ich one of the following is a forest crop gro Tea Pyrethrum Timber Cocoa.	own in Tanzania?	
char A g B l C l	joining of a small piece of shoot to a cacteristics is referred to as grafting layering budding cutting.	a shoot containing root system with g	ood
A I B I	ch compartment in a ruminant stomach is Rumen. Reticulum. Abomasum. Omasum.	considered to be a true stomach?	
A (B) I	feed nutrient essential as structural constituent Carbohydrates. Proteins. Vitamins. Mineral salts.	uents of the animal body are	
B C	of the factors that cause change in demand Changes in income of consumers Changes in the costs of production Occurrence of pests and diseases Changes in weather condition.	d of an agricultural good is	
	D 2 C		

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- (viii) The factor of production that enables effective utilization of other factors is
 - A land
 - B capital
 - @ entrepreneurship
 - D labour.
- (ix) Which one of the following is not true about soil?
 - A It is the weathered part of the earth's crust.
 - B It is the upper layer of the earth's crust.
 - C. Contains five percent water.
 - D Contains plant and animal remains.
- (x) Which one of the following soil properties is **not** influenced by the soil structure?
 - A Aeration.
 - B Water movement.
 - C Colour.
 - D Porosity.
- 2. Match the items in List A with those in List B by writing the letter of the correct answer below the corresponding item number in the table provided.

ANSWERS

HIABAAFIR						1	/ 115		11. 1	200
LIST A	(i)	(ii)~	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
LIST B		14.3	9.	4	0	1	7	p.d.	112	F

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3.	For e	each of the following statements, write TRUE for a correct statement or FALSE for a ment that is not correct.
	(i)	Agriculture can be regarded as a science as it involves application of human skills which can be manipulated
	(ii)	In scientific investigation procedures, acceptance or rejection of the hypothesis is done in data analysis,
	(iii)	Tenon saw is used for cutting wood grains in many directions
	(iv)	Intercropping is the growing of two or more crops on the same piece of land at random
	(v)	The system of rearing poultry in which sawdust is spread on the floor of the house where birds are kept is known as deep litter system
	(vi)	'B horizons' in a soil profile are characterized by accumulation of materials
	(vii)	Inelastic supply occurs when the quantity of goods supplied changes by a smaller percentage than the price
	(viii)	Silage is a livestock fodder which is stored while it is still in a green moist state
	(ix)	Herbicides are chemicals used to kill weeds
	(x)	Soil structure is the relative proportions of soil particles of different diameters in the soil
		SECTION B (70 Marks)
4.		give the name of the pipe fitting that is used for each of the following purposes in lumbing: (i) Branching off the main pipeline
	(i	ii) Changing direction of run of a pipe
	(i	ii) Connecting pipes in a straight line
	(i	v) Connecting two fittings
	(1	(v) Connecting two pieces of pipes where either one can be turned or where part of a system
		will have to be removed for repair or replacement
	(b) S	tate the function of each of the following tools used in woodwork.
	(i	Cross-cut saw

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		(ii)	Jack plane
		(iii)	Chisel
		(iv)	Hammer
		(11)	
		(v)	Brace.
		(1)	Diacc
		D-6	ne the term 'crop pest'
٥.	(a)	Den	ne the term 'crop pest'
			1 1 - controlling nests
1	(b)	(i)	Outline two advantages and four disadvantages of chemical method in controlling pests.
			Advantages:
			Disadvantages:
			Give four suitable properties for the chemical to be used to control pests.
		(ii)	Give four suitable properties for the chemical states of the chemica
6.	(a)	Diffe	erentiate between natural and artificial brooding.

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	Candidate's E
	(b) Briefly explain four problems of the free range system in rearing poultry.
	tange system in rearing poultry.
	7. (a) Define the following terms:
	(i) Nomadic pastoralism
	(i) Nomadic pastoralism
	(ii) Shifting cultivation.
	(b) Outline six dia 1
	(b) Outline six disadvantages of nomadic pastoralism.
1466	
	8. (a) (i) What is a factor of production?
	(ii) Briefly describe three characteristics of land as a factor of production
	as a factor of production
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(b) (i) Who is an entrepreneur?	
(ii) Give five roles of entrepreneurship as a factor of production.	
The production.	
9. (a) (i) Define the term 'soil profile'.	
(ii) Mention four horizons found in a soil profile and state their characteristics.	
1:1ticles of the soil	
(b) (i) Name the three solid particles of the solid	
G. S. S. S. S.	
(ii) State two functions of living organisms in the soil.	
10. (a) Briefly explain the function of each of the following garden tools.	
(i) Wheelbarrow	
(1) Wheelodate	
(ii) Sprinkler	
(iii) Hose nine	
	A
(iv) Garden shear	A P
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(v)	Secateur					
			AUG. The Control of t			
(b) Nar	ne the garden tool res					
. (i)	Watering seedlings	in nursery beds a	nd transplanted s	eedlings		
(ii)	Preparing planting	furrows and holes				
(iii)	Removing undergro	ound perennial we	eds			
(iv)	Collecting together	uprooted olant ro	ots and stems			
(v)	Clearing the land of	small trees and s	hrubs before cult	ivation		
	- A					
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				69		
				Þ91	36	50 %
				Luog	398	
					091	
				0.91	Star	/
				1	367	5