Candidate's Examination Number...

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

034

AGRICULTURAL SCIENCE

Time: 2 Hours

Monday, 23rd November 2015 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	R EXAMINERS' USE	ONLY
QUESTION NUMBER	SCORE	EXAMINERS' INITIALS
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TOTAL		

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PM-RALG 2015

Candidate's Examination Number..... SECTION A (30 Marks)

	SECTION A (30 Marks)
. F	or each of the item $(i) - (x)$, choose the correct answer from among the given alternatives and trite its letter in the box provided.
(i	All of the following are chemical weathering processes except A hydrolysis B expansion and contraction C acidification D oxidation and reduction reactions.
(i	One of the following groups of crops belongs to spice crops. A oranges and mangoes B ginger and cloves C beans and cow pea D wheat and barley.
(i	Which one of the following is a social problem facing farmers in Tanzania? A Traditionalism. B Scarcity of inputs. C Poor marketing facilities. D Seasonal rainfall.
(i	Which one of the following is not a feature of a good farm workshop? A It should contain basic tools. B It should be orderly and systematic. C It should be expensive with modern equipment. D It should have ample room for working.
(The price of a good is determined by A producers' will B method of production used C consumer income D inflation.
(New castle disease in poultry can be identified by A swollen wattles and combs B nasal discharge and swelling of the face C blood stained faeces D birds walk backwards hiding their heads with neck twisted.
(All of the following are physical procedures of processing agricultural produce except Salting B extraction C evaporation of water D grading.

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(v	iii) The instrument which is used for driving in and removing nails in woodwork is known as
	A ball-pein hammer
	B claw hammer
	C cross-pein hammer
	D metal hammer.
(i	x) Soil structure is determined by
	A colour of the soil
	B size of the soil particles
	Shape of the soil particles
	D particle density of the soil.
(x	Quick and immediate attention that one receives after an accident in agricultural laborat
	before taken to hospital is known as
	A treatment
	B preventive measure
	C first aid
	D safety precaution.

the corresponding item number in the table provided.

	List A	List B
(i)	Cuts wood grains in any direction	A Mallet
(ii)	Make grooves on wood.	B Rasp
iii)	Smoothen surfaces in wood.	C Marking gauge
iv)	Fastens together small pieces of timber.	D Brace and bit
v)	Drives in wood chisel.	E Hack saw
vi)	Drive nails into wood and remove nails from	F Ball-pein hammer
	wood (G Tenon saw
vii)	Drill holes in wood.	H Jack plane
viii)	Indicates the parallel lines along the edge of wood for cutting.	I Try square
ix)	Drive screws in and out of wood surfaces.	J Anvil
x)	Smoothens round surfaces of wood.	K Scrapper
		L G clamp
		M Wood chisel
		N Claw hammer
		O Screw driver

(ii)

ANSWERS
List A

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(vi)

(viii) (viii)

List	В										
		2									
For e	each of the	ne follow is not cor	rect.	tements,	write T	RUE fo	or a cor	rect state	ment or	FALS	E for a
(i)	The non-	solid spac	ces in th	ne soil ar	e called	pore spa	ces				
(ii)	The fidentification	irst st	ep i	n agr	ricultural	inve	stigation	proc	edure	is	problem
(iii)	Agricultu	aral econo	omics is	the stuc	ly of the	econom	y as a wl	nole	121		
(iv)	In weldin	ng, metal	parts an	e joined	by mean	ns of a fi	sible all	oy			
(v)		suitable			ivestock	is one	of the	general	princip	oles of	livestocl
(vi)	Weeds h	ave both	benefic	ial and h	armful e	effects to	crop pla	ants			
(vii)	Capital assets	is a		of	producti	on wh	ich re	sults f	rom a	accumul	ation
(viii)	Concent	rates are	indigest	tible feed	ds with h	nigh nutr	itive val	ue			
(ix)	One of easier	the obje			essing	agricultu	ıral pro	ducts is	to ma	ke their	handli
(x)	Soil form	nation is	the evo	lution of	the soil	from th	e consol	idated be	drock.		
					SEC	TION I	3 (70 M	arks)			
(a) (i)) Define	the term	a 'agric	ulture'.							
					J						
						4					
(ii	i) Why is	s agricult	ture coi	isidered	to be a	science					

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7. (a) Define the following terms:
(i) Ration
(ii) Balanced ration
(iii)Production ration
(iv)Maintenance ration
(b) (i) Differentiate between hay and silage.
(5) (1) Billerentiate between hay and shage.
Gi) Outling formation in the in-
(ii) Outline four steps in making hay.
and the symbol start
(iii)Briefly explain the importance of conserving fodder.
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			Candidate's Examination Number
8.	(a)	Give (i)	e the meaning of the following: Price
		1	
		(ii)	Supply

		(iii)	Demand
	(b)	(i) I	Briefly explain how taxation determines price of an agricultural good.
		(ii) l	Name five factors affecting the demand of an agricultural good.
9.	(a)	(i) V	What is soil?
			N
		(11) 3	Show the distribution of soil components by volume.
	(b)	State	e five factors that influence soil formation.

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10. (a) Differentiate the following: (i) Interplanting and monocropping.
(ii) Mixed cropping and intercropping.
(b) (i) What is meant by crop rotation?
(ii) Enumerate five advantages of crop rotation.

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