Candidate's Examination No.....

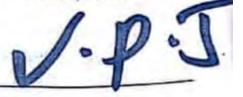
THE UNITED REPUBLIC OF TANZANIA HEAD CLACH

MINISTRY OF EDUCATION AND VOCATIONAL TRAINING FORM TWO SECONDARY EDUCATION EXAMINATION, 2009

0034

AGRICULTURAL SCIENCE

TIME: 2 HOURS



INSTRUCTIONS

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

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QUESTION NUMBER	SCORE	INITIALS OF EXAMINER
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This paper consists of 10 printed pages.

Candidate's Examination I	No
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SECTION A (30 MARKS)

1.	Writ	e TRUE for a correct statement or FALSE for a statement that is no
	corr	ect.
	(i)	Agricultural Science and Engineering Science are examples of
	-	Applied SciencesT
	(ii)	In subsistence production land and labour are major factors of
		production
	(iii)	Observation, data collection, hypothesis formulation,
		experimentation and teaching are procedural methods used in the
		scientific process.
	(iv)	When properly used, First Aid can help the patient to recover from shock.
	-(v)	Pipe fittings which are used to branch the main pipeline to other
	-	lines are known as elbows
	(vi)	New castle disease in poultry is caused by bacteria.
	(vii)	Sand is a type of soil with good water holding ability.
-		Pomology is a science and art of growing fruits.
	(ix)	Subsistence farming ensures high productivity and surplus earnings
		for the farmers.
	(x)	Mulching is a practice of spreading a layer of dried grass on the
		ground around root zone.

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 In the table below, Set A is a list of various farm operations performed by tools listed in Set B. Use the letters in set B to match with the corresponding operations in Set A. Write the letter of the correct answer in the table below.

SET A	SET B
(i) all purpose digging tool.	A. Anvil
	B. Ball pen hammer
(ii) a special grain harvesting tool.	C. Claw hammer
	- D. Candling torch
(iii) checking eggs fertility.	E. Files
,,	F. G-clamp
(iv) makes horizontal cuts in the soil	G. Hacksaw
during ploughing.	H. Hand drill
and product	I. Hand hoe
(v) used for cutting metals.	J. Lactometer
(v) tased for extends	K. Plane
(vi) driving and removing nails in woods.	L. Reducing coupling
vi) driving and removing	M. Scriber
vii) making holes in metals or woods.	N. Share
VII) IMARING HOICS IN AND THE STATE OF THE S	O. Sickle
sthering metals	P. Spade
(viii) smoothening metals.	Q. Spanner
Section of the second section of the section of the second section of the section of	R. Tenon saw
ix) supports a metal piece in forging.	S. Yoke harness
	and the second s
x) holding and turning nuts onto bolts.	* I STANSANT

ń	SET A			T		105.		1	(wiii)	(ix)	(x)	1
1	SET A	(i)	(ii)	(iii) :-	(1V)	(v)	(V1)	(VII)	(VIII)	1	G.	1
	SET B	I	0	6	N	4	6	14			1.4.	1

- Write down the letter of the correct answer in the box provided for each question.
 - (i) The system of keeping animals inside the house, feeding and providing with water to them throughout their lifetime is known as:
 - A. continuous grazing
 - B. rotational grazing
 - C. tethering
 - D. zero grazing.



- (ii) The amount of feed given to a certain animal so as to fulfill the daily requirement is a:
 - A. balanced ration
 - B. complete ration
 - C. production ration
 - D. ration.



- (iii) All of the following are breeds of poultry EXCEPT:
 - A. Black Australorp
 - B. Large white
 - C. Light Sussex
 - D. Rhode Island Red.



- (iv) One of the problems associated with weeds in the farm of crops is:
 - A. competes with crops in nutrients utilization
 - B. increases organic matter in the soil
 - C. preserves soil moisture
 - D. some are used as food to man and to farm animals.
- (v) A practice where two or more crops are grown together in a field is called:
 - A. intercropping
 - B. mixed farming
 - C. monoculture
 - D. relay planting.



- (vi) A soil type which sticks when wet and cracks when dry is:
 - A. alluvial soil
 - B. clay soil
 - C. colluvial soil
 - D. sand soil.



and the second s
 Mention ten classes of crops which are grown in Tanzania and give one example in each class:
(i) Fruit COP example Day
(iii) vegetatio crop example callage
(iv) Boot crop example Potatoes
(vi) FIBTE CTOP example SISON
(viii) loctume crop example real
(ix) Forange crop example Cattle
(x) Bevetange crop example CbCoa
 Suppose you are asked to prepare a dairy ration of 100 kg containing 20% protein. Livestock feeds which are available are maize bran containing 12% protein and groundnuts cake containing 32% protein.
(i) By using the Pearson's Square method show how you will compound the required ration.

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(ii) Calculate the amount of maize bran and groundnuts cake that will be required in formulating the dairy ration.

- 8. (a) Define the following terms as used in Farming Business Economics:
 - (i) Price i ! the value of goods and
 - (ii) Demand schedule 1 the test of goods or services that are trought at
 - (iii) Equilibrium price of the Price that determine the quantity that any parties
 - (iv) Farm gate price the price that afarmer receives when they sell their products at their
 - (v) Elasticity of supply! I the meaning of quantity or great type of that committy the

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(b) The price of one tray of eggs raised from Tsh 1000/= to 1500/= per tray as a result the supply of eggs fell from 20,000 to 15,000 trays per week. Calculate the elasticity of supply of eggs.

9. (a)	What is horticulture?
	Fruit end of Lower solde
	The state of the s

'(b) Outline nine factors you will take into consideration when selecting a site for establishing a vegetable garden.

751	consider the characteristics of the will
(i)	consider the directo of the place
(ii)	correct of the place
(iii)	select area with reliable source of the
(iv)	Consider the trusportation or veg
(v)	Consider market for vegetable
(vi)	
(vii)	
(viii)	
fire	77

10. (a) Define the term "farm power" as used in Agricultural mechanization and land utilization.

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(b) List six sources of farm power.

(c) Differentiate between primary and secondary tillage equipment.

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