Candidate's Examination No....

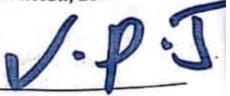
THE UNITED REPUBLIC OF TANZANIA HEAD CALCH

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.
- 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.

FOR I	EXAMINER'S US	SE ONLY
QUESTION NUMBER	SCORE	INITIALS OF EXAMINER
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This paper consists of 10 printed pages.

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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
	10	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.
		Sand is a type of soil with good water holding ability.
*		Pomology is a science and art of growing fruits.
	(ix)	T280 MIC CO. C.
	1	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
and the basis of the same of t	- D. Candling torch
(iii) checking eggs fertility.	E. Files
1	F. G-clamp
(iv) makes horizontal cuts in the soil	G. Hacksaw
during ploughing.	H. Hand drill
	I. Hand hoe
v) used for cutting metals.	J. Lactometer
to the same of the	K. Plane
(vi) driving and removing nails in woods.	L. Reducing coupling
vij driving and reme	M. Scriber
vii) making holes in metals or woods.	N. Share
Villemaking noics in the	O. Sickle
(viii) smoothening metals.	P. Spade
(viii) smoothering meters.	Q. Spanner
to large to forging	R. Tenon saw
x) supports a metal piece in forging.	S. Yoke harness
	O. Toke marries
k) holding and turning nuts onto bolts.	S. H. Kernerier

1/3	and the same			121	100					160.500	100	ı
	SET A	(i)	(ii)	(iii)	(iv)	(v)~-	(vi)	(vii)	(viii)	(1X)	(x)	1
(C. II	SET B	Ī				4	6	1+	1	A.	Ψ.	J

- 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.



 Mention ten classes of crops which are grown in Tanzania and give one example in each class:
(i) Fruit Crop example Drange
(ii) Cercal Use example Paddy
(iii) vegetatle crop example callage
Down and the trans of the state of the transfer of the transfe
and one potatoer
(1)
10-1-00
(VIII)
(viii) Dil Crop example Simsim
(ix) Forange crop example Cattle
(x) Beverange crop example CbCoa
7. 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 is I the value of goods and
 - (ii) Demand schedule 1 the list of goods or services that are trought at
 - (iii) Equilibrium price of the Price that determine the quantity that anyon may parties
 - (iv) Farm gate price Are prices that aformer receives when they sell their products at their
 - (v) Elasticity of supply! I the means of quantity or the price of that committy

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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.

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

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

Little extent of input in

(b) List six sources of farm power.

(i) Puna Somer

- (iii) Wind Didwin
- (v) Mechanical Dowler
- (c) Differentiate between primary and secondary tillage equipment

designed to lose the soil and reading