

THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA  
FORM TWO NATIONAL ASSESSMENT

034

AGRICULTURAL SCIENCE

Time: 2:30 Hours

Year: 2020

Instructions

1. This paper consists of sections A, B and C with a total of **ten (10)** questions.
2. Answer **all** questions.
3. Section A and C carry **twenty (20)** marks each and section B **sixty (60)** marks.
4. All answers must be written in the spaces provided.
5. Cellular phones and any unauthorised materials are **not** allowed in the assessment room.
6. All writing must be in blue or black ink.
7. Write your **Assessment Number** at the top right hand corner of every page.

FOR ASSESSORS' USE ONLY		
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
<b>TOTAL</b>		
<b>CHECKER'S SIGNATURE</b>		

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### SECTION A (20 Marks)

Answer **all** questions in this section.

1. For each of the items (i) - (x), choose the correct answer from among the given alternatives and write its letter in the box provided.

- (i) The action of growing the same crop on a field or a particular part of the field season after season or year after year is termed as   
 A monocropping. B crop rotation.  
 C monoculture. D intercropping.
- (ii) Which one is **not** a poultry breed?  
 A Light breeds. B Large white breeds.  
 C Heavy breeds. D Dual purpose breeds.
- (iii) Which minerals are best in promoting the development of fruits and seeds in plants?  
 A Phosphorus B Magnesium   
 C Sodium D Zinc
- (iv) The wood work tool used for sawing timber across the grain is called   
 A crosscut saw. B tenon saw.  
 C rip saw. D hack saw.
- (v) The quantity of a given commodity that producers are able and willing to offer for sale at a given price is called.   
 A demand B profit.  
 C supply. D cost.
- (vi) Which one is **not** a crop storage structures?   
 A Cribs. B Warehouse.  
 C Ganaries. D Tin.
- (vii) Which factor cause changes in demand?   
 A Changes in tastes and habits of consumer.  
 B Weather changes.  
 C Occurance of pest and diseases.  
 D Changes in the costs of production.
- (viii) The term that refers to the maximum water that can be held against drainage in the soil is   
 A field capacity. B gravitational water.  
 C capillary water. D soil solution.
- (ix) Which one of the following **does not** fall under the life cycle classification of crop plants?   
 A Annual crop plants B Semi annual crop plants  
 C Biennial crop plants. D Perennial crop plants.

- (x) One of the following refers to group of plants which grow well even when there is very little moisture in the soil:
- A hydrophytic plants.                      B xerophytic plants.
- C mesophytic plants.                      D saprophytic plants.



2. Match the plants in **List A** with the plants reproductive structure in **List B** by writing the letter of the correct response below the corresponding item number in the table provided.

List A	List B
(i) Banana	A Stem tubers
(ii) Sweet potato	B Runners
(iii) Onion	C Bulbs
(iv) Strawberry	D Bulbils
(v) Irish potato	E Suckers
	F Root tubers
	G Corms

**ANSWERS**

LIST A	(i)	(ii)	(iii)	(iv)	(v)
LIST B					

3. For each of the following statements, write **TRUE** if a statement is correct or **FALSE** if a statement is not correct in the spaces provided.
- (i) Low temperature enhances organic matter decomposition. \_\_\_\_\_
- (ii) Management is one of the functions of an entrepreneur. \_\_\_\_\_
- (iii) Hides and skins of livestock are used to make leather and leather products. \_\_\_\_\_
- (iv) Unreliable rainfall is one of the institutional problems facing agriculture in Tanzania.  
\_\_\_\_\_
- (v) Hand pulling is a cultural method of controlling weeds growing too close to crops.  
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**SECTION B (60 Marks)**

Answer **all** questions in this section.

4. (a) What do you understand by the following terms as they are used in agricultural economy?

(i) Industrialization

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(ii) Substance farming

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- (b) Which measures can be taken by the Government to improve the agricultural sector in Tanzania. Give seven measures.

(i) 

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(ii) 

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(iii) 

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(iv) 

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(v) 

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(vi) 

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(vii) 

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5. (a) Briefly describe four harmful effects of crop pests.

(i) 

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- (ii) \_\_\_\_\_  
\_\_\_\_\_
- (iii) \_\_\_\_\_  
\_\_\_\_\_
- (iv) \_\_\_\_\_  
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(b) How do the following methods practiced in controlling crop pests?

(i) Timely planting

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(ii) Use of trap crops

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(iii) Crop rotation

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6. (a) Describe five factors that influence soil formation.

(i)

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(ii)

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(iii)

(iv)

(v)

(b) Briefly explain five importance of soil structure.

(i)

(ii)

(iii)

(iv)

(v) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. (a) State six factors to be considered in establishing and managing well any livestock project.

(i) \_\_\_\_\_  
\_\_\_\_\_

(ii) \_\_\_\_\_  
\_\_\_\_\_

(iii) \_\_\_\_\_  
\_\_\_\_\_

(iv) \_\_\_\_\_  
\_\_\_\_\_

(v) \_\_\_\_\_  
\_\_\_\_\_

(vi) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) State one use for each of the following in a deep litter system:

(i) Waterers  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(ii) Perches  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(iii) Nests  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(iv) Feeders  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. (a) Elaborate the following statements:

(i) Elasticity is the measure of change.

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(ii) Elasticity is greater than one

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(iii) Elasticity is less than one

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(iv) Elasticity is equal to one

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(b) Briefly explain how the following price determinants influence price of an agricultural good.

(i) Taxation

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(ii) Government Levies

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(iii) Supply

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9. (a) (i) Why farm workshop is important to farmers?

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- (ii) Briefly explain six safety precautions to be observed in a workshop.

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- (b) Account five advantages of animal power in farm enterprise.

(i) 

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(ii) 

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(iii) 

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(iv) 

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(v) 

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