



Candidate's Examination Number.....

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

034

AGRICULTURAL SCIENCE

Time: 2:30 Hours

Monday, 21st November 2016 a.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 ONLY

QUESTION NUMBER	SCORE	EXAMINERS' INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		

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SECTION A (30 Marks)

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

(i) Procedural method that follows data presentation in scientific process is known as

- A^a data analysis B data collection
C experimentation D observation

(ii) All of the following are examples of farm hand tools **except**

- A machete B secateur
C sickle D ox-plough

(iii) Which one of the following is an annual crop?

- A Coffee B Maize
C Pyrethrum D Tea

(iv) What is the advantage of nomadic pastoralism?

- A There is no possibility of spread of livestock diseases.
B It is a good way of utilizing marginal lands.
C There is high productivity of animals.
D There is controlled breeding.

(v) In developing agriculture, the government should do all of the following **except**

- A improving communication in the rural areas
B improving storage facilities for agricultural products
C encouraging taboos and traditions by farmers
D improving extension services

(vi) In a soil profile, the horizons in which there is little or no weathering are called

- A 'B' horizons B 'O' horizons
C 'S'A' horizons D 'C' horizons

(vii) Which one of the following is the use of files in farm workshop?

- A Sharpening blades of cutting tools
B Cutting sharp curves in woodwork
C Cutting wood along grains
D Smoothens wood surfaces

(viii) The chemical used to control weeds is known as

- A nematicide B pesticide
C herbicide D fungicide

(ix) Animal feed that contains a lot of water is termed

- A concentrate B roughage
C marsh D succulent

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- (x) Which one of the following price determinants causes fall in price of a good as it increases?

A Demand B Supply
C Taxation D Levy

2. Match the items in **List A** with the responses in **List B** by writing the letter of the correct response from **List B** below the corresponding item number in the table provided.

List A	List B
(i) The process of testing the hypothesis.	A. Conclusion
(ii) The process of gathering the measured data.	B. Aim of the experiment
(iii) The acceptance or rejection of hypothesis.	C. Procedure of the experiment
(iv) Prediction of possible cause of the problem.	D. Problem definition
(v) It is a process of taking data.	E. Measurement
(vi) The process of bringing the meaning of the data.	F. Data sampling
(vii) The process of looking for the problem.	G. Test experiment
(viii) The process of identifying the problem.	H. Data review
(ix) Testing the observed prevailing conditions.	I. Data collection
(x) Logical data arrangement.	J. Observation
	K. Data presentation
	L. Control experiment
	M. Formulation of hypothesis
	N. Data coding (<i>recording</i>)
	O. Data analysis

ANSWERS

List A	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)
List B	<i>✓</i>									

3. For each of the following statements, write **TRUE** if a statement is correct or **FALSE** if a statement is not correct.

- (i) Agriculture and industry sectors depend on each other
 (ii) Soil water constitutes 50 percent of the soil by volume
 (iii) Farm workshop is a room where experiments are conducted
 (iv) Tomatoes grow well in hot climates
 (v) Debeaking in poultry prevents cannibalism
 (vi) Management is a factor of production that plans, organizes and implements the production process
 (vii) Sandy clay soil is one of the soil structural type

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- (viii) Knowing the location of the safety equipment in the laboratory is not necessary *F*
- (ix) It is important to use shield when welding *T*
- (x) Agriculture is considered to be both a science and an art *T*

SECTION B (70 Marks)

4. (a) (i) What is meant by First Aid?

to the place where the victim or sick person before go to hospital for medical assistance.

- (ii) What is First Aid Kit?

A the small box where the first aid - instruments are kept.

- (b) Briefly describe six steps to follow when rendering First Aid to a person who has been punctured by a sharp edged tool.

- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)

5. (a) (i) What do you understand by a term farm power?

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- (ii) Name six sources of farm power.

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- (b) State three advantages and three limitations of using a tractor as a source of farm power.

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6. (a) Distinguish between food crops and cash crops.

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- (b) Enumerate eight principles of crop production.

- (i)
(ii)
(iii)
(iv)
(v)
(vi)
(vii)
(viii)

7. (a) (i) Define the term 'livestock'.

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- (ii) Name eight products of livestock.

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(b) Outline five principles of livestock production.

- (i)
- (ii)
- (iii)
- (iv)
- (v)

8. (a) (i) What do you understand by a term subsistence farming?

- (ii) Account for five characteristics of subsistence farming.

(b) Briefly explain three ways in which industrial development contributes to the development of agricultural sector in Tanzania.

- (i)
- (ii)
- (iii)

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9. (a) State the role of each of the following in the soil.
- (i) Living organisms

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(ii) Soil water

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(iii) Air

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- (b) (i) What is the meaning of soil formation?

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(ii) Examine the influence of the five factors of soil formation.

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10. (a) State four factors to consider when selecting a site for a vegetable garden.

(i)

(ii)

(iii)

(iv)

(b) Outline six features that should be considered when planning to establish a vegetable garden.

(i)

(ii)

(iii)

(iv)

(v)

(vi)