

Student's Assessment number.....

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
UBUNGO MUNICIPAL COUNCIL
FORM TWO MOCK EXAMINATION
034 AGRICULTURAL SCIENCE

Time: 02:30 Hours**Thursday, 27th May, 2021 p.m****Instructions**

1. This paper consists of **sections A, B and C** with a total of **ten (10)** questions.
2. Answer **all** questions in sections A, B and C.
3. Section A carries **fifteen (15)** marks, section B carries **seventy (70)** and C carry **fifteen (15)** marks each.
4. All writing must be written in the space provided.
5. All working must be in **blue** or **black** ink.
6. Cellular phone and any unauthorized materials are **not** allowed in the assessment room.
7. Write your **Assessment Number** at the top right corner of every page.

FOR ASSESSOR'S USE ONLY		
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		
CHECKER'S INITIALS		

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SECTIONA (15 Marks)Answer **all** questions in this section.

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

i. In developing agriculture, the government should do all of the following **except**;

- A. Improving communication in rural areas
- B. Encouraging taboos and traditions to farmers
- C. Improving storage facilities for agricultural products
- D. Improving extension services

ii. One of the following cropping systems allows the farmer to apply various cultural practices without much problems;

- A. Crop rotation
- B. Mixed cropping
- C. Monocropping
- D. Interplanting

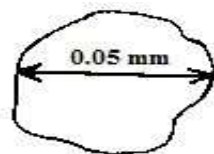
iii. Livestock breeds that occur naturally inside a country are called;

- A. Home grown livestock
- B. Hybrids
- C. Local breeds
- D. Common breeds.

iv. One of the following is not a feature of a good farm workshop;

- A. It should be expensive with modern equipment
- B. It should have ample space for working
- C. It should be orderly and systematic
- D. It should have basic tools

v. What is the name given to a mineral soil particle with the size/diameter shown below?



- A. Coarse sand
- B. Clay
- C. Silt
- D. Fine sand

vi. Given similar environmental and management conditions, which of the following chicken breeds can generally lay more eggs than the other?

- A. Light Sussex
- B. New Hampshire
- C. Rhode Island Red
- D. White leghorn

vii. _____ is a list of all that a farmer owns and the cash value of each item;

- A. Inventory
- B. Asset
- C. Stock
- D. Valuation

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- viii. The following are determinants of crop spacing **except**;
 A. Soil fertility C. Relative humidity of an area
 B. Vegetative growth of the crop D. The purpose of the crop.
- ix. The factor of production that has characteristic of being fixed is called;
 A. Labour C. Land
 B. Capital D. Entrepreneurship
- x. Cultivated crop variety which does not produce true-to-seed is known as:
 A. GM variety C. Traditional variety
 B. Cultivar D. Composite variety

Answers:

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the items in **LIST A** with the correct 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. Beverage crops ii. Fiber crops iii. Medicinal crops iv. Ornamental crops v. Spice crops	A. Beans and kapok B. Barley and maize C. Coffee and cocoa D. Cotton and kapok E. Hibiscus and roses F. Lucerne and stylo grass G. Vines and tangerine H. Mexico 142 and binti athumani I. Okra and cauliflower J. Cinnamon and cardamom K. Tobacco and beans L. Pyrethrum and tobacco M. Sunflower and simsim

Answers:

LIST A	i	ii	iii	Iv	v
LIST B					

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3. For each of the items (i) – (v), write **TRUE** for correct statement and **FALSE** for incorrect statement.
- Most people in our country have positive attitude towards agriculture as an occupation
 - Monocropping and monoculture improve soil fertility.....
 - Light Sussex is among the heavy breeds of chicken
 - Subsistence farmers tend to be reluctant to abandon their traditional farming practices for the fear of risks and uncertainties
 - Land as a factor of production include all natural resources like soil, minerals, rivers, lakes, pests, vegetation and climatic conditions found in a particular area

SECTION B (70 Marks)

Answer **all** questions in this section.

4. a) Give **one** basic reason for each of the following facts;

- Agriculture is a science

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- Agriculture is an art

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- b) Define the term “Cropping system” as used in Crop production

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- c) Differentiate the following pairs of cropping systems:

- Monocropping and Monoculture

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- Intercropping and Interplanting

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5. a) Most farmers in Tanzania adopt Extensive System in keeping their livestock.

Outline **three** major challenges imposed by the system and suggest **one** proper way to overcome each challenge.

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c) Define the term "Farm power" as used in Agricultural mechanization.

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d) Name **six** main sources of farm power.

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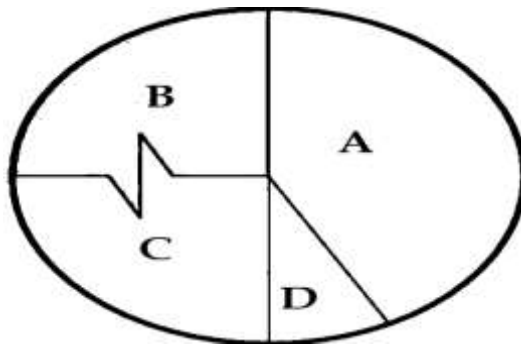
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6. a) The diagram below shows percentage composition of soil constituents by volume.



i. Including percentage composition to each, name soil constituents indicated by letter **A** to **D**.

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ii. Using **three** points, outline the role played by constituent **A** in the soil

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b) Briefly, describe relationship between scarcity and prices of goods and services in farming business

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c) As an Entrepreneur, outline **three** methods you can use to increase the value of your land as a factor of production.

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7. a) You have been employed as a chief farm manager and your main purpose is to ensure efficiency and continuous profit in the farm. Elaborate major tasks that you think are suitable to achieve such goal.

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- b) In December, 1980, the manager of Lukuledi Village Farm bought a planter for 40,000/=. He expected to write it off at the end of 1990 when its value would be approximately 6,000/=. Using straight line method, calculate;
- Annual depreciation of the planter
 - What was the value of the planter at the end of December 1986?

- c) When valuation was done at Mr. Makwati's farm on 1st December 2020, the situation was as follows;

Cash in hand 200/=:, cash in bank 4,000/=:, 20 cattle each 2,000/=:, 130 sheep each 25/=:, seeds and manures worth 450/=:, implements worth 500/=:, buildings worth 2,500/=: and purchased animal feeds worth 405/=:.

Mr. Makwati had not yet paid a loan of 500/=: he obtained from CRDB and Mr. Shayo had not yet paid Mr. Makwati 500/=: for two goats which he bought on credit. Prepare a balance sheet to show financial position of Mr. Makwati's farm as 1st December 2020.

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- d) Mr. Apolinali cultivated 5 hectares of maize and got 10,000/= after selling the products. In production process, he bought seeds for 1,500/=: fertilizer for 500/= and pesticide for 1,000/=. He also paid 800/= for weeding and 500/= for harvesting by casual labourers. Calculate gross margin of maize per one hectare.

8. a) Crop production Define the following terms as used in:

- i. Tissue culture

.....

- ii. Seed rate

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b) Outline any **four** factors determining Seed rate in planting.

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- c) Calculate plant population of maize crops sown on a field of one hectare using inter-row spacing of 90cm and intra-row spacing of 30cm.

9. a) Differentiate the following pairs of terms as used in Crop production

- i. Local variety and Hybrid variety

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- ii. Composite variety and Genetic modified variety

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- b) Poor soil fertility is among the major challenges limiting crop productivity in Tanzania. Outline **three** appropriate measures to overcome the challenge.

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SECTION C (15 Marks)

10. Using **six** points, discuss social values of livestock in Tanzania and other parts of the world.

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