University of Ruhuna- Faculty of Technology

Bachelor of Biosystems Technology Honours Degree Level 1 (Semester II) Examination, December 2023 Academic year 2020/2021

Cou	rse l	Jnit: BST 1282 Fundamen	tals In Agriculture (Theory)	Durat	ion:1.5 hours
Part I -	Ans	wer all questions (50 minut	tes).	•••••	•••••
		swer only two questions (4)			
Part I					
1.	. C.				
	i		ollowing;		(15 marks)
				A	
				1	
	ii	Second Agricultural Revol	ution		
		toade nom waw true to suce			
		Third Assisultural Paralut			
	m	Third Agricultural Revolut	ion		
	•				*.
	h S	everal activities are carrie	d out during the land preparat	ion for	crop cultivation
			for each of the following activit		(10 marks)
		Activity	main reason/purpose		
	i	Zeo tillage			
(chai	B ()		What is meant by soil texture?		
		77 1 4 17			
	ii	Harrowing the soil			
	iii	Mulching			
OS TICODOS	Mitte.	A STATE OF THE STA	What is the most important soil.		
			(2 marks)		
	iv	Thinning out			
	v	Hardening of seedlings			
		The second of secondings			

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2.			
4.			of her In more superior

a. Giving an example, briefly explain as to how parent material influences the properties of a soil. (5 marks)

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b. Soil materials are progressively moved within the natural landscape. List down three (03) types of transported soil with the relevant transportation method.

(6 marks)

Briefly explain the main three (03) horizons of soil with their specific features. (9 marks)

i. What is meant by soil texture?

(3 marks)

What is the most important soil textural class in agricultural perspective?
 (2 marks)

3.	
J.	

Write five (05) distinctive characteristics of agricultural products that set them (10 marks) apart from other goods in the realm of marketing.

b. State (3) three importance of labelling of a food.

(6 marks)

c. Differentiate common name and the brand name of a label with examples. (9 marks)

a. Give a brief description for each type of the following crops. State an example for

Crop type	Explanation	Examples
(:11	tuse the tote of organic matter in improving	est whateh #
	totel the metods available for increasing	b. Described
ii. Grams		The state of the s
iii. Oil seed crop	Amigations book to astronoc out, and	A. Daleston
iv. Fiber crop	able examples, discuss the major methods	
v. Sugar crop		

Briefly explain the part of the following plant used as a vegetable. Give two
examples for each. (15 marks)

Part of the plant	Explanation	Example
BULBS:	COURT SCHOOL OF CASE LAST OF SHIP RESIDENCE	atea maga
FLOWERS:		
FRUITS:		,
ROOTS:	twee unipersoner of labeling of a food.	b. State (3)
TUBERS:		,

Part II - 40 minutes, Answer two questions only.

1.

- a. Briefly explain the effect of climatic factors on crop production. (20 marks)
- Explain the importance of "Controlled agriculture" as an alternative crop
 production method to minimize the impact of above-mentioned climatic factors.
 (25 marks

2.

- a. Briefly discuss the role of organic matter in improving soil fertility. (25 marks)
- b. Describe in brief the methods available for increasing organic matter content in soil.
 (25 marks)

3.

a. Briefly explain the benefits of food packaging.

(20 marks)

b. Giving suitable examples, discuss the major methods used in food packaging.

(30 marks)

.....End of the paper.....