UNIVERSITY OF RUHUNA BACHELOR OF SCIENCE (GENERAL) DEGREE EXAMINATION LEVEL III SEMESTER I, 2020 (NOVEMBER 2021)

Subj	ect: Botany					
Cour	se Unit: Principles of Ho	rticulture and Landscapi	ing (BOT3122)			
Time	: 1.5 hours					
Inde	x No.:					
Answ	er only THREE question	s including question No	.1			
1)		Part A				
	Select/Underline the mo	st suitable answer fron	a, b, c and d	(20 marks)		
i)	Olericulture is a. growing plants	b. caring animals	c. growing vegetable	s d. growing fruits		
ii)	What is the correct answer regarding vegetative propagation?					
	 c. propagules used time 		ion are bulky and can't be	e stored for a long		
iii)	By, a branch of a plant can be rooted when it is still attached to the mother plant					
	a. grafting	b. layering	c. budding	d. hydroponic		
iv)	What is most compatible a. Apple and wood b. Mango and Guav c. Rose and Bougai d. Lemon and oran	apple va inville	essful grafting?			
v)	What is the most distinctive layering method among the following layering methods?					
	a. tip layering	b. simple layering	c. air layering	d. trench layering		

vi) Which of the following is not a role of landscape architect? a. site visit and gather information b. produce sketch of the landscape plan c. cost estimation d. installation of non-plant materials in the landscape vii). Which of the following is suitable for public area of residential landscape? a. cloth line b. compost bin c. flower bed d. garage viii). Select correct statement a. bulb, corms, and runners cannot be used in vegetative propagation b. apomixis is a sexual propagation method of plants c. cytokinin, gibberellin, and auxins are some plant growth regulators d. in grafting, diameter of scion and rootstock should be similar ix). Open (circulatory) hydroponic system is a. Nutrient film technique (NFT) b. Root dipping technique c. Floating technique d. Capillary action technique x) Post planting immediate care of plant does not include b. fencing and wiring c. wrapping and shading d. fertilizing a. mulching Part B Circle "T" or "F" if the statement given is TRUE or FALSE respectively (16 Marks) Horticulture provides mental therapy for stressed people i) T It is not possible to graft more than one scion on a single rootstock. T ii) Hydroponically grown vegetables are highly demanded iii) Flower beds in a residential landscape should be installed in private T F iv) area

V)

T

Topiary form of plants can be gained by periodic pruning

vi)	T	F	Landscape contractor is the person who responsible for installing plants
vii)	T	F	Focalization is a principle of landscape design
viii)	T	F	Pollarding is a special method of plant training

Part C

a) What is horticulture and floriculture?	
Horticulture	(12 marks)
Floriculture	
b) State FOUR (04) merits and demerits of horticulture. Merits	(12 marks)
iii	
iii. iv.	
Demerits	
v. vi. vii.	
viii.	

c) Giving a suitable diagram mark the major areas of a residential landscape

(15 marks)

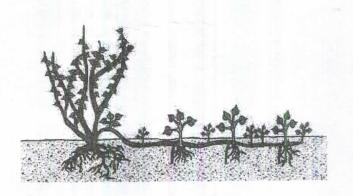
iv.....

e) Identify following diagrams

(15 marks)



Eg. Leaf cutting,



i).....

INSERTING THE SCIONS INTO THE ROOTSTOCK

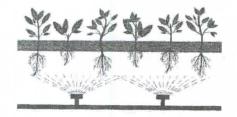




ii)



iii)



iv)



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v)

- a) "Landscaping does not just beautifying the environment but it provides more benefits to the environment and people" Discuss the statement.
 - b) What is the difference of hard and soft landscaping?
 - c) What are the factors to be considered in selecting plants for a flower garden?
- 3) Briefly describe the following
 - a) Roles of nurserymen
 - b) Advantages of hydroponic systems
- 4) a) Explain briefly the reasons for pruning horticultural plants
 - b) Describe the basic guidelines for plant pruning
 - c) Discuss briefly crown thinning and crown raising system of pruning