

QP CODE: 24900140

Reg No:	
Name•	

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

FIRST SEMESTER MGU-UGP (HONOURS) REGULAR EXAMINATION NOVEMBER 2024

First Semester

Discipline Specific Core Course - MG1DSCHTC100 - BASIC HORTICULTURE

(2024 ADMISSION ONWARDS)

Duration: 1.5 Hours Maximum Marks: 50

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I), Appreciation (Ap), and Skill (S)

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

[Learning Domain][CO No(s)]

Part A

Short Answers

Answer any ten questions. Each question carries 1 mark.

1	What are the primary objectives of horticulture?	[U]	[1]
2	How does horticulture aim to improve water use efficiency and soil health	[An]	[1]
	in plant cultivation?		
3	What is vertical garden?	[K]	[2]
4	Differentiate living and non-living components of garden.	[An]	[2]
5	What does the term water-use-efficiency refer to in irrigation?	[An]	[3]
6	What are the essential nutrients for plant growth?	[K]	[3]
7	How does the soil's water-holding capacity influence irrigation practices?	[U]	[3]
8	Write a short note on Temperate fruit zone.	[K]	[2]
9	How can horticultural therapy be used in healthcare settings to improve	[S]	[1]
	physical and mental well-being.		
10	What are Soil Moisture Sensors?	[K]	[3]
11	What is air layering?	[U]	[5]
12	Write about the nutrient source of an aquaponics system.	[U]	[5]

 $(10 \times 1 = 10)$

Part B

Short Essay Type Questions
Answer any six questions. Each question carries 5 marks.

13	Describe the process of creating a garden layout plan.	[U]	[2]
14	Evaluate the effectiveness of polyhouses in extending the growing season for various crops.	[E]	[2]
15	How evapotranspiration does influence the need for irrigation?	[A]	[3]
16	How does soil nutrient management helps to attain sustainable agrarian culture?	[E]	[3]
17	How post-harvest technology preserves the quality and shelf life of horticultural crops.	[S]	[1]
18	What are the challenges faced by the horticulture industry in developing countries?	[E]	[1]
19	How do you prepare seeds for planting?	[A]	[5]
20	Assess the environmental benefits of aeroponics over traditional farming.	[An]	[5]
		(0	$6\times 5=30)$
	Part C		
	Essay Type Questions		
	Answer any one question. Question carries 10 marks.		
21	Create a plan for implementing AI-driven precision agriculture in a small-	[C]	[5]

 $(1\times10=10)$

[U] [2]

END OF THE QUESTION PAPER

Discuss in detail the structure, functions, and applications of greenhouses in

scale farm.

agriculture and horticulture.

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