A Reg. No.:						

Question Paper Code: UA406

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2025

Professional Elective

Agricultural Engineering

		7 igi icultulul	Diigincering		
		21AGV406– LANDSCA	APE ARCHITECTURE		
		(Regulation	ons 2021)		
Dur	ation: Three hours		M	aximum: 100	Marks
		Answer ALI	L Questions		
		PART A - (10 x	x 1 = 10 Marks		
1.	What plant type gardens?	s were introduced during	g the British influence i	n Indian	CO1- U
	(a) Native plants	(b) Exotic plant species	(c) Bamboo and bonsai	(d) Aquatic	plants
2.	Which of the follo	owing is a method of propa	agating palms?		CO1-U
	(a) Only by divisi	on of clumps	(b) Only by seeds		
	(c) Both seeds and	d division of clumps	(d) By cutting branches		
3.	Which chemical i	s used for weed manageme	ent in lawn grass?		CO1-U
	(a) Dimethoate	(b) Glyphosate	(c) Dithane M-45	(d) Acephate	
4.	Which of the fol campus to reduce	lowing trees is suitable for noise and dust?	or peripheral planting in a	a school	CO1-U
	(a) Erythrinaindic	ca (b) Eucalyptus	(c) Bougainvillea	(d) Tecomaan	rgentea
5.	Which plant is su	itable for a terrarium?			CO1-U
	(a) Cactus	(b) Maranta species	(c) Large shrubs	(d) Eucalyptu	is trees
6.	Dry flower indust	ry leader in India is			CO1-U
	(a) Kerala	(b) Tamil Nadu	(c) Karnataka	(d) Maharash	ıtra
7.	Ideal pH range fo	r the growing medium in a	roof garden is		CO1-U

(b) 5.5 - 8.0 (c) 6.0 - 7.0

(d) 7.5 - 9.0

(a) 3.5 - 5.0

8.	What type of irrigation system can be used in roof gardens?						CO1-U		
	(a) D	rip irrigation	(b) Overhead irrigation	(c) Sprinkler systems	systems (d) All of				
9.	What	is the most ex	spensive method of lawn 1	making?		C	CO1-U		
	(a) Se	eeding	(b) Turfing	(c) Turf plastering	(d) Dibb	ling roo	ots		
10.	What	is the recomn	nended frequency for ferti	ilizing a lawn?		C	CO1-U		
	(a) O	nce a year	(b) Twice a year	(c) Thrice a year	(d) Mont	hly			
			PART - B (5 x	2= 10 Marks)					
11.	Nan	ne two signific	ant contributions of the B	ritish to Indian garden de	esigns.	CO1-	· U		
12.	Discuss the advantages and disadvantages of the turfing method in lawn making.								
13.	. Write a short note on the types of plants suitable for hanging baskets.								
14.	4. Outline the steps involved in installing a roof garden.								
15.	5. What are the symptoms and control measures for chlorosis in lawns?						CO1-U		
			PART - C (5	5 x 16= 80Marks)					
16.	(a) Discuss the importance, types, and uses of shrubs in gardening. CO Or						(16)		
	(b)		role of ornamental palitheir propagation, and ma		in CO1	U	(16)		
17.	(a)	lightweight	wants to establish a rooft materials. Suggest the media, considering weight Or	best container types a		- App	(16)		
	(b)	plants in a propagation	are setting up a nursery region with limited media and containers we choices considering wating.	water availability. Whould you select, and wh	ich 1y?	- App	(16)		

18. (a) Discuss the functional and aesthetic uses of plant materials in CO1- U landscaping, highlighting their environmental benefits, utility, and role in creating thematic designs

Or

- (b) Describe the planting design process and principles, including site CO1- U analysis, plant selection, and layering techniques. Provide examples to illustrate your answer
- 19. (a) Explain the key elements and recommendations for landscaping CO1- U an educational institution. Highlight the roles of trees, shrubs, and lawns in enhancing aesthetics and functionality.

Or

- (b) Elaborate on the factors to be considered for irrigation in roof CO1- U gardens, along with the various irrigation methods used.
- 20. (a) Analyze the various factors influencing the success of lawn CO4- Ana (16) making by seeding, including the role of site preparation, soil conditions, seed selection, watering techniques, and ongoing maintenance practices in achieving a healthy and sustainable lawn

Or

(b) Analyze how practices like aerating, rolling, top dressing, TGRs, CO4- Ana (16) micronutrient application, and mowing impact the long-term health and functionality of a sports field. Discuss their contributions to soil quality, grass growth, and turf resilience, along with potential challenges.