



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**FOURTH SEMESTER – APRIL 2023**

**UPB 4602 – HORTICULTURE AND LANDSCAPING**

Date: 06-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

## SECTION A - K1 (CO1)

**Answer ALL the Questions**

**(10 x 1 = 10)**

### 1. Fill in the blanks

- a) The study of the cultivation of fruit is called \_\_\_\_\_.
- b) A block of material with a high capacity for water absorption and retention that provides mechanical support for the cut flowers in a floral arrangement is \_\_\_\_\_.
- c) The hormone \_\_\_\_\_ is used for initiation of roots
- d) Layering is an \_\_\_\_\_ method of propagation.
- e) \_\_\_\_\_ are often referred to as small trees.

### 2. State whether the following statements are TRUE or FALSE

- a) *In situ* sowing refers to sowing of seeds directly in the field.
- b) Large-leaved plant species are most suitable for bonsai.
- c) The efficient technique for propagating crotons is air layering.
- d) Biennials are plants that complete their life cycle in one year.
- e) Powdery mildew in lawns is a fungal disease.

## SECTION A - K2 (CO1)

**Answer ALL the Questions**  
**10)**

**(10 x 1 =**

### 3. Choose the correct answer

- a) Plugging refers to the setting out of small sod blocks.  
a) Threshing b) Sprigging c) Plugging d) Turfing
- b) Which of the following is not a method of propagating Bonsais?  
a) air layering b) cuttings c) grafting d) leaf mining
- c) Name a method in which the cut stems of two different plants are joined together to grow as a single plant?  
a) Layering b) Grafting c) Cutting d) None of the above
- d) Buds that arise from unexpected locations, such as buds arising from root tissue, are known as?  
a) precocious buds b) apical buds c) radical buds d) adventitious buds
- e) The method of lawn establishment comprises of  
a) by seed b) by dibbing c) by turfing and turf-plastering d) all the above.

### 4. Answer the following, each in about 50 words

- a) Define Olericulture
- b) What are garden ornaments?
- c) Mention the importance of cold and hot frames.
- d) Recall hardscape.

e)	What is mowing?
<b>SECTION B - K3 (CO2)</b>	
	<b>Answer any TWO of the following in 500 words (2 x 10 = 20)</b> <b>Draw diagrams / flowcharts wherever necessary</b>
5.	Sort out the specifications for Turfgrass establishment.
6.	Write an account on the various practices followed in cultivation of Jasmine.
7.	Write notes on the structure of a nursery.
8.	Give an account on cut flowers and its preservation methods.
<b>SECTION C – K4 (CO3)</b>	
	<b>Answer any TWO of the following in 500 words (2 x 10 = 20)</b> <b>Draw diagrams / flowcharts wherever necessary</b>
9.	Distinguish the layout of Mango and Sapota trees.
10.	Explicate the employment opportunities in horticulture.
11.	Compare and contrast the various parts of a garden.
12.	Present a brief account on the categories of landscaping
<b>SECTION D – K5 (CO4)</b>	
	<b>Answer any ONE of the following in 1000 words (1 x 20 = 20)</b> <b>Draw diagrams / flowcharts wherever necessary</b>
13.	Describe the various types of flower arrangements
14.	Explain the merits and demerits of sexual and asexual propagation
<b>SECTION E – K6 (CO5)</b>	
	<b>Answer any ONE of the following in 1000 words (1 x 20 = 20)</b> <b>Draw diagrams / flowcharts wherever necessary</b>
15.	Discuss the establishment and layout of Kitchen garden and nutrigarden.
16.	Describe the types of vertical gardens.

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