



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION

PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2025

UPB 4602 – HORTICULTURE AND LANDSCAPING



Date: 08-05-2025

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 PM

SECTION A - K1 (CO1)

Answer ALL the Questions

(10 x 1 = 10)

1. Fill in the blanks

- Turf, in horticulture, the surface layer of soil with its matted,
- is a piece of land where fruit crops are grown commercially.
- propagation results in producing true to type plants.
- The blackening of rose is caused by low temperature and high content.
- Landscaping is done with a view to create a natural scene by planting of lawn,and.....

2. State whether the following statements are TRUE or FALSE

- The horticulture is derived from the Greek word hortus.
- Apple is called as king of temperate fruit.
- IBA is used for shoot multiplication in tissue culture.
- The living wall is often referred to as a rooftop garden.
- Lime is often added to the soil to neutralize its acidity.

SECTION A - K2 (CO1)

Answer ALL the Questions

(10 x 1 = 10)

3. Choose the correct answer

- One of the essential parts of macronutrient is
i) calcium ii) nitrogen iii) boron iv) zinc
- Hormone used to break fruit seed dormancy.
i) 2,4-D ii) NAA iii) Gibberellin iv) both I & ii
- Choose the odd one out.
i) cuttings ii) layering iii) seed germination iv) grafting
- Which country is most often associated with the art of bonsai
i) China ii) Japan iii) India iv) Brazil
- Vertical landscaping involves growing plants in
i) backyards ii) terrace iii) trellises iv) sunken

4. Answer the following, each in about 50 words

- Compare raised and sunken bed in nursery management.
- Define pomology.
- Distinguish between Mughal and British garden.
- Differentiate non-residential from residential garden.
- Interpret vertical landscaping.

SECTION B - K3 (CO2)

Answer any TWO of the following in 500 words

(2 x 10 = 20)

Draw diagrams / flowcharts wherever necessary

- Discuss the principles of landscaping in gardens.

6.	Explain in detail about the orchard management.
7.	Write notes on pot culture in horticulture.
8.	Give a brief account on cultivation practices in Jasmine.
SECTION C – K4 (CO3)	
	Answer any TWO of the following in 500 words (2 x 10 = 20) Draw diagrams / flowcharts wherever necessary
9.	Summarise turf grass management.
10.	Write an account on cut flower preservation methods.
11.	Critically comment on mist chamber and green house.
12.	Write notes on different parts of a garden.
SECTION D – K5 (CO4)	
	Answer any ONE of the following in 1000 words (1 x 20 = 20) Draw diagrams / flowcharts wherever necessary
13.	Outline the structure and components of various types of garden.
14.	Compare the plant propagation techniques in detail. Add a note on its merits and demerits.
SECTION E – K6 (CO5)	
	Answer any ONE of the following in 1000 words (1 x 20 = 20) Draw diagrams / flowcharts wherever necessary
15.	Elaborate on types of nursery and its components.
16.	Describe the various types of flower arrangements. Add a note on various elements and principles of art and flower arrangement.

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