

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – **BOTANY**

HORTICULTURE

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Question No.	Question	K Level	CO
1	Which of the following plants is commonly propagated by stem cutting? (a) Rose (b) Banana (c) Mango (d) Onion	K1	CO1
2	Pomology is the branch of horticulture that deals with (a) Vegetables (b) Fruits (c) Flowers (d) Landscape design	K2	CO1
3	Symmetrical and asymmetrical arrangements in a garden are examples of which design principle? (a) Unity (b) Balance (c) Focal points (d) Simplicity	K1	CO2
4	What is the primary purpose of a water garden? (a) Cultivating vegetables (b) Enhancing beauty and supporting aquatic plants (c) Producing timber (d) Preventing soil erosion	K2	CO2
5	Which type of soil is best suited for Anthurium cultivation? (a) Sandy soil (b) Clay soil only (c) Well-drained, organic-rich loamy soil (d) Saline soil	K1	CO3
6	A decorative flower arrangement kept on a dining table is known as (a) Garland (b) Centerpiece (c) Bouquet (d) Wall hanging	K2	CO3
7	What is the primary economic importance of Pomoculture? (a) Fruit exports and employment generation (b) Fertilizer production (c) Manufacture of farming equipment (d) Only soil conservation	K1	CO4
8	To enhance mango yield, which of the following practices is most important? (a) Neglecting pests and diseases (b) Random planting without proper spacing (c) Waterlogging the orchard (d) Timely pruning and proper manuring	K2	CO4
9	What is the effect of excessive pruning in fruit trees? (a) Better sunlight penetration (b) Increased fruit quality (c) Reduced flowering and yield (d) More root growth	K1	CO5
10	What is the primary function of cytokinins in plants? (a) Promote cell division and delay leaf aging (b) Induce dormancy (c) Promote fruit ripening (d) Reduce vegetative growth	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry **EQUAL** Marks $(5 \times 7 = 35)$

Question No.	Question	K Level	CO
11.a.	Illustrate with examples how specialized vegetative parts like bulbs and suckers are used in plant propagation. (OR)	K2	CO1
11.b.	Discuss the practical applications of various garden tools in efficient garden management.		
12.a.	Differentiate briefly between a formal and an informal garden. (OR)	K3	CO2
12.b.	Explain the concept of a greenhouse and discuss its functions in horticulture.		
13.a.	Define floriculture and explain its importance in horticulture. (OR)	K3	CO3
13.b.	Explain the cultivation methods, nursery practices, manuring and harvesting of Chrysanthemum.		
14.a.	Explain the important cultivation practices followed in grape production and state their advantages. (OR)	K4	CO3 CO4
14.b.	Write briefly about the different methods of fruit storage and explain their importance.		
15.a.	Describe the preventive and control measures for any one major horticultural disease. (OR)	K4	CO5
15.b.	Analyze the preparation methods of fruit squash and syrups.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry **EQUAL** Marks $(3 \times 10 = 30)$

Question No.	Question	K Level	CO
16	Analyze the different grafting techniques used in plants and evaluate their significance .	K4	CO1
17	Analyze the principles and techniques of Bonsai cultivation and evaluate its significance.	K4	CO2
18	Analyze how climatic conditions, nursery techniques, cultivation practices, manuring and harvesting methods influence the growth of roses.	K4	CO3
19	Write an account on the influence of environmental factors, propagation methods, cultural practices and harvesting techniques of banana.	K4	CO4
20	Give a detailed account of the methods used in making jam and jelly preparation.	K4	CO5