

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023 ONLY)

23UBY613

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS :APRIL - 2026

B.Sc.-BOTANY

MAXIMUM MARKS: 75

SEMESTER: VI

TIME : 3 HOURS

PART – III
HORTICULTURE AND PLANT BREEDING

SECTION – A (10 X 1 = 10MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

K1

1. The division of horticulture that deals with the cultivation of fruits and fruit trees is called: _____.
a) Olericulture b) Floriculture c) Pomology d) Arboriculture
2. The most ancient type of garden is the: _____.
a) Kitchen garden b) Market garden c) Vegetable garden d) Floating garden
3. This is a naturally occurring growth inhibitor _____.
a) NAA b) IAA c) GA d) ABA
4. Which method is primarily used for extracting the concrete from delicate jasmine flowers?
a) Steam distillation b) Cold press extraction c) Solvent extraction d) Enfleurage
5. Which of the following is a primary goal of plant breeding?
a) Increasing susceptibility to diseases b) Decreasing crop yield
c) Improving phenotype and heredity d) Purposeful manipulation for crop improvement

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

K2

6. What is the purpose of cutting propagation?
7. What is the plant that is used for topiary?
8. Is Sarpagandha used for snake bites?
9. How does a plant become a bonsai?
10. Why is hybrid vigor important?

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)

11. a) Identify the divisions of horticulture.

(OR)

- b) Simplify the methods of cutting in horticulture.

- 12.a) Compare and contrast indoor and outdoor gardening.

(OR)

- b) Compute the components of an informal garden. Add notes on its importance

(CONTD 2)

13.a) Find out the varieties and cultivation procedure in Brinjal.

(OR)

b) Summarize the cultivation method of Jasmine.

14.a) Collect the extraction of concrete in jasmine.

(OR)

b) Assign up the concept, rule and importance of Bonasi.

15.a) Identify the scope and importance of plant breeding

(OR)

b) Determine the methods of hybridization techniques in plant breeding.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) Classify the types and importance of layerage in horticulture

(OR)

b) Analyze the methods and significance of irrigation.

17.a) Outline the layout of Kitchen garden. Add notes on its importance.

(OR)

b) Discuss the type and importance of formal garden.

18. a) Focus the role of plant growth regulators in horticulture.

(OR)

b) Assess the cultivation process, pest control and uses of tea plantation

19.a) How to arrange cut and arrange flowers? - Discuss in detail

(OR)

b) Organize the methods for the preservation of vegetables.

20.a) Correlate the pureline and clonal selection in plant breeding. Mention its advantages

(OR)

b) Infer the challenges, achievement and uses of sugarcane breeding.

ETHICAL PAPER