

19. (a) Discuss on cultivation methods of Brinjal and Onion.

Or

- (b) Explain the irrigation methods of Banana and Mango.

20. (a) Demonstrate the methods to cultivate Rose.

Or

- (b) Compare the Hydroponics from Aerophonics.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Illustrate Cuffing and Grafting techniques with neat diagrams.
22. Discuss on different components of garden.
23. Describe the advantages and disadvantages of fertilizers in horticulture with suitable example.
24. Explain the different stages of planning and layout of orchards.
25. Write floriculture methods to cultivate Chrysanthemum, Rose and Jasmine.

S.No. 6196

P 22 BONME/1

(For candidates admitted from 2022–2023 onwards)

P.G. DEGREE EXAMINATION, NOVEMBER 2023

Botany — Non Major Elective

HORTICULTURE

Time : Three hours

Maximum : 75 marks

SECTION A — (20 marks)

Answer ALL questions

- I. (A) Choose the correct answer : (5 × 1 = 5)
1. Which of the following method is commonly practiced for root induction
- (a) Cutting (b) Layering
- (c) Grafting (d) Budding
2. In a formal garden, the imaginary central line is known as
- (a) Edges (b) Axis
- (c) Focal point (d) Hedges
3. Green manure is
- (a) Maize (b) Rice
- (c) Sorghum (d) Sesbania
4. Fruit type of Brinjal is
- (a) Berry (b) Drupe
- (c) Nuts (d) Capsule

5. It is important not to keep fruit baskets in the same cooler with fresh flowers because
- fruit flies eat flower petals
 - banana and apples give off an odor that is absorbed by the flowers
 - ethylene gas from the fruit will cause the flowers to age quickly
 - florists shouldn't sell fruit— that is the job of the grocery store
- (B) Fill in the blanks : $(5 \times 1 = 5)$

6. _____ part of tissue is used for matching scion and stock
7. Plant grow into different forms or shapes called _____
8. _____ application of fertilisers is through the irrigation water.
9. An orchard is one where different _____ crops have been planted in an orderly manner.
10. Applying pesticides to plants that can be effectively used in greenhouse but not outdoors is _____

II. Answer ALL questions : $(5 \times 2 = 10)$

11. Define scion in horticulture.
12. What is Astro Turf?

13. What is terrarium?
14. What are the types of fruit orchards?
15. What is Bonsai method of plant cultivation?

SECTION B — $(5 \times 5 = 25)$

Answer ALL questions, choosing either (a) or (b)

16. (a) Evaluate importance and scope of horticulture.

Or

- (b) Analyse stock scion relationship.

17. (a) Differentiate Indoor garden from Outdoor garden.

Or

- (b) How the garden plays major role in urban environment?

18. (a) What are the types of manures and its advantages?

Or

- (b) Determine the characteristics of plant growth regulators and their role in horticulture.