

B.Sc. DEGREE EXAMINATION, APRIL 2022  
BRANCH V(a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY  
FOURTH SEMESTER

COURSE : MAJOR – ELECTIVE  
PAPER : HORTICULTURE  
TIME : 3 HOURS

MAX. MARKS: 100

SECTION-A

A. ANSWER THE FOLLOWING

18 Marks

I. Choose the correct answer

(1x5=5)

- The art of growing trees for aesthetic or scientific purpose is  
(a) Pomology (b) Arboriculture (c) Olericulture (d) Ornamental horticulture
- Bryophyllum* can be propagated through  
(a) Cutting (b) Grafting (c) Layering (d) Seeds
- Shield budding is also known as  
(a) Chip budding (b) T-budding (c) Wedge budding (d) Flute budding
- The implement used to trim the hedge and borders is  
(a) Shears (b) Shovel (c) Spade (d) Fork
- Yellowing of lawn grass indicates deficiency of  
(a) Nitrogen (b) Phosphorous (c) Iron (d) Boron

II. Fill in the blanks:

(1x5=5)

- Growing of vegetables in small quantities for nearby marketing is known as \_\_\_\_\_.
- Air layering is otherwise known as \_\_\_\_\_.
- Lotus is commonly seen in \_\_\_\_\_ garden
- The art of growing plants in transparent container is called a \_\_\_\_\_.
- Rose is commonly propagated through \_\_\_\_\_.

III. State True or False

(1x3=3)

- The art of shaping plants to resemble animate or inanimate form is known as Ikebana.
- Indian Botanical Garden is in Kolkata.
- An example for perennial vegetable is cauliflower.

IV. Match the following

(1x5=5)

- Cynodon* - Garden adornment
- Jasmine - Lawn
- Pergola - Scion
- Green house - Madurai
- Stock - Vegetable forcing

**V. ANSWER ANY SIX OF THE FOLLOWING QUESTIONS IN 50 WORDS EACH:**  
**(6x3=18)**

19. Potting
20. Shovel
21. Water garden
22. Seed propagation
23. Compost
24. Truck garden
25. Landscape
26. Cascade Bonsai
27. Vegetable forcing

#### **SECTION-B**

**ANSWER ANY FOUR OF THE FOLLOWING QUESTIONS IN ABOUT 200 WORDS EACH.**  
**DRAW DIAGRAMS WHEREVER NECESSARY.** **(4x6=24)**

28. List the divisions of Horticulture.
29. Explain the significance of Brindavan Garden.
30. How will you propagate and harvest Jasmine?
31. Design a rock garden and write the procedure involved in creating it.
32. Write short notes on terrarium.
33. Briefly discuss on organic gardening.

#### **SECTION-C**

**ANSWER ANY TWO OF THE FOLLOWING QUESTIONS IN ABOUT 1000 WORDS EACH.**  
**DRAW DIAGRAMS WHEREVER NECESSARY.** **(2x20=40)**

34. How will you propagate plants through layering and grafting?
35. Elaborate the methods involved in propagation and harvesting of mango and onion.
36. Draw a layout for a kitchen garden and add a note on the plants that can be cultivated there.
37. Explain in detail on flower arrangement.

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