

**2023/TDC(CBCS)/EVEN/SEM/
BOTSEC-601T(A/B)/234**

TDC (CBCS) Even Semester Exam., 2023

BOTANY

(6th Semester)

Course No. : BOTSEC-601T

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Candidates have to answer *either* from Option—A
or Option—B

OPTION—A

Course No. : BOTSEC-601T (A)

(Nursery and Gardening)

SECTION—A

Answer any *fifteen* of the following questions :

1×15=15

1. What do you mean by plant nursery?
2. What is the difference between a nursery and a garden?

(2)

3. What is seasonal nursery?
4. What are direct seedlings?
5. What is seed dormancy?
6. What is scarification?
7. What do you mean by viable seed?
8. What is artificial seed?
9. What is grafting?
10. What do you mean by greenhouse?
11. What is cutting?
12. What do you mean by layering?
13. What is home garden?
14. What is soil layering?
15. What is kitchen garden?
16. Write the importance of watering in the garden.
17. What is transplantation of seedlings?
18. Write the scientific name of tomato.
19. What is seed sowing?
20. Write one health benefit of garlic.

(3)

SECTION—B

Answer any *five* of the following questions : $2 \times 5 = 10$

21. What are the objectives of plant nursery?
22. Write two important characteristic features of a good nursery.
23. Differentiate between scarification and stratification.
24. Write two ways of proper storage of seeds.
25. What do you mean by hardening of plants? Write its importance.
26. Write two importances of shade house.
27. Write two objectives of gardening.
28. How soil is prepared for gardening?
29. Differentiate between seed and seedlings.
30. Write two best practices of storage of vegetables.

(4)

SECTION—C

Answer any *five* of the following questions : $5 \times 5 = 25$

31. Discuss about the scope of nursery.
32. Write about the basic infrastructural requirements for preparing a nursery.
33. What are seed banks? Write about the importance of seed banks. $2+3=5$
34. Discuss about the factors that influence the seed viability. What do you mean by genetic erosion? $4+1=5$
35. Write the characteristic features and importance of greenhouse. $2+3=5$
36. Write about the different methods of vegetative propagation.
37. Write a note on park and its components.
38. How pest management can be done during gardening?
39. Write about marketing strategies adopted for vegetables.
40. Write in detail about cultivation methods of different vegetables with examples.

(5)

OPTION—B

Course No. : BOTSEC-601T (B)

(**Mushroom Culture Technology**)

SECTION—A

Answer any *fifteen* of the following questions :

$1 \times 15 = 15$

1. To which group of fungi mushrooms belong?
2. Name one Poisonous mushroom.
3. What is edible mushroom?
4. Write the scientific name of one edible mushroom.
5. What do you mean by spawn?
6. What is culture medium?
7. What do you mean by thached house?
8. What is inoculation loop?
9. What is mushroom bed?
10. Write one benefit of paddy straw.

(6)

11. What is fruiting body?
12. Write the importance of water in the growth of mushroom.
13. What is the percentage of carbohydrate in mushroom?
14. What is drying?
15. What do you mean by short-term storage of mushroom?
16. What is the average self-life of mushroom?
17. What is the optimum temperature for growth of mushroom?
18. Name one mushroom research center at national level.
19. Name one popular food preparation of mushroom.
20. Write one nutritional value of mushroom.

(7)

SECTION—B

Answer any *five* of the following questions : $2 \times 5 = 10$

21. How Poisonous mushroom can be identified?
22. Give two examples of edible mushroom.
23. What is culture rack? Write its uses. $1+1=2$
24. Write two importances of pure culture medium in mushroom cultivation.
25. What are the different substrates used for preparation of mushroom bed?
26. What is the crude fibre content of mushroom?
27. Write two low-cost technologies for mushroom cultivation.
28. Differentiate between short-term and long-term storage of mushroom.
29. Write two medicinal uses of mushroom.
30. Write about export value of mushroom.

SECTION—C

Answer any *five* of the following questions : 5×5=25

31. Write about the nutritional value of mushroom.
32. Write a note on the prospects of mushroom cultivation in India.
33. Describe in brief the infrastructural requirements for mushroom cultivation.
34. Write in detail about different mediums used in mushroom cultivation.
35. Write in detail about different mushroom bed preparations.
36. Write a note on composting technology in mushroom cultivation.
37. Write about the chemical composition of mushroom.
38. Write in detail about long-term storage of mushrooms.
39. Write a note on mushroom researches in India.
40. Give an account of different types of food prepared from mushroom.

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