

**2022/TDC (CBCS)/EVEN/SEM/  
BOTSEC-601T (A/B)/282**

**TDC (CBCS) Even Semester Exam., 2022**

**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. Define transplanting.**

**2. Define seedlings.**

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3. Give an example of endospermic seed.
4. Give an example of non-endospermic seed.
5. What is radicle?
6. Define seed viability.
7. What is seed germination?
8. What do you mean by impaction?
9. What is shade house?
10. Define vegetative propagation.
11. Name the hormone for root induction in cuttings.
12. What is rooting medium?
13. Define gardening.
14. What is manuring?

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15. What do you mean by orchards?
16. Name a commonly used fungicide for controlling diseases of nursery plants.
17. What is the scientific name of garlic?
18. Name the family to which onion belongs.
19. What is the scientific name of brinjal?
20. Name a root crop.

SECTION—B

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

21. Write a note on infrastructure for nursery.
22. Write about seasonal activities.
23. Write about genetic erosion.
24. Point out the causes of seed dormancy.
25. Write a note on air layering.

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26. Give a short account of mist chamber.
27. Point out the objectives of gardening.
28. Write a note on parks.
29. Write the storage procedures of lady's finger for marketing.
30. Write about seed sowing.

SECTION—C

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

31. Give a detailed account of planting.
32. Give an account of objectives and scope of nursery.
33. Describe methods for breaking seed dormancy.
34. Give an account of seed testing and seed certification.  $2\frac{1}{2} + 2\frac{1}{2} = 5$
35. Write notes on greenhouse and glasshouse.  $2\frac{1}{2} + 2\frac{1}{2} = 5$

( 5 )

36. Write about selection of cuttings and hardening of plants.  $2\frac{1}{2} + 2\frac{1}{2} = 5$
37. Give an account of different types of gardening.
38. Give a detailed account of gardening operations.
39. Write an essay on raising of seedlings.
40. Give an illustrated account of transplantation of seedlings.

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OPTION—B

Course No. : BOTSEC-601T (B)

( **Mushroom Culture Technology** )

SECTION—A

Answer any *fifteen* of the following questions :

1×15=15

1. What is button mushroom?
2. Name one poisonous mushroom.
3. What do you mean by oyster mushroom?
4. What is the scientific name of paddy straw mushroom?
5. What is low-cost stove?
6. Define pure culture.
7. Define hyphae.
8. What is mushroom bed?

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9. What is fruiting body?
10. Define basidiospore.
11. Define gills.
12. To which class of fungi mushrooms belong?
13. Write about mushroom drying.
14. Name some mineral elements present in mushrooms.
15. What is canning?
16. What is the percentage of protein in mushrooms?
17. Name a toxin present in poisonous mushroom.
18. Name a mushroom research centre in North-East India.
19. What is the incubation temperature of mushroom mycelium?
20. Write about export value of mushrooms.

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SECTION—B

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

21. Name some poisonous mushrooms found in North-East India.
22. Draw and label fruiting body of a typical mushroom.
23. Write about culture rack.
24. Write a note on inoculation loop.
25. Give a short account of composting technology.
26. Write about maize straw as a substrate for mushroom cultivation.
27. Name some vitamins present in mushrooms.
28. Write a note on crude fibre content in mushrooms.
29. Write about cost benefit ratio in connection with mushroom cultivation.
30. Name some mushroom food items.

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SECTION—C

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

31. Describe various types of mushrooms available in India.
32. Give an account of medicinal value of mushrooms.
33. Write notes on pure culture and medium sterilization.  $2\frac{1}{2} + 2\frac{1}{2} = 5$
34. Write an essay on preparation of mushroom spawn.
35. Describe low-cost technology for mushroom cultivation.
36. Write about the factors affecting preparation of mushroom bed.
37. Give an account of proteins and amino acids present in mushrooms.
38. Describe short-term and long-term storage of mushrooms.

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- 39.** Give a detailed account of ~~m~~ushroom marketing in India.
- 40.** Describe various activities of ~~m~~ushroom research centres in India.

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