

**2021/TDC(CBCS)/EVEN/SEM/
BOTSEC-601T/115**

**TDC (CBCS) Even Semester Exam.,
September—2021**

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
(Nursery and Gardening) *or* Option—B
(Mushroom Culture Technology)

OPTION—A

Course No. : BOTSEC-601T (A)

(Nursery and Gardening)

SECTION—A

Answer any fifteen questions :

1×15=15

- 1. Define nursery.**
- 2. What is the moto of a wholesale nursery?**

(2)

3. What is transplanting?
4. What are seedlings?
5. What do you mean by sunken beds?
6. Give an example of a non-endospermic seed.
7. What is plumule?
8. What do you mean by seed viability?
9. Name a hormone responsible for flowering in plants.
10. Mention a cause of seed dormancy.
11. What is scarification?
12. Name a seed certification agency in India.
13. Define vegetative propagation.
14. Name the hormone which is commonly used to treat cuttings.
15. What is the use of mist chamber?
16. What are the different means of propagation of tea plant?

(3)

17. What is the full form of IBA?
18. What are composts?
19. Define floriculture.
20. What are orchards?
21. What is rock gardening?
22. What do you mean by the term 'manuring'?
23. Name a common fungicide used in the control of fungal diseases of nursery plants.
24. Name a common fungal disease of nursery plants.
25. What is landscaping?
26. What is the scientific name of onion?
27. What do you mean by sowing?
28. What is the scientific name of lady's finger?
29. Give an example of a root crop.
30. Brinjal belongs to which family of angiosperm?

SECTION—B

Answer any *five* questions :

2×5=10

31. Write a short note on stratification.
32. What do you mean by seed dormancy?
33. What is hardening of plants?
34. Write the advantages of seed dormancy.
35. Name four plants suitable for home gardening.
36. What are the different harvesting procedures of garden crops?
37. Write a short note on air-layering.
38. What are the uses of a glasshouse in gardening?
39. Write the storage procedures of tomatoes for marketing.
40. Name four vegetable plants which are raised from vegetative body parts.

(5)

SECTION—C

Answer any *five* questions :

5×5=25

41. Write the objectives and scope of nursery.
42. Write a note on the infrastructures needed for nursery.
43. Write a note on seed bank with special emphasis on its role in gardening.
44. Give an account of the different methods of seed testing.
45. Write a note on greenhouse. How does a greenhouse differ from a glasshouse? 3+2=5
46. Write a note on the different means of vegetative propagation.
47. Give an account of the gardening operations needed to maintain a good garden.
48. Give an account of the components of a park with an emphasis on plant types suitable for a nice park.
49. Describe the processes of raising different types of plants suitable for a garden.
50. Describe the cultivation process of cabbage.

(6)

OPTION—B

Course No. : BOTSEC-601T (B)

(**Mushroom Culture Technology**)

SECTION—A

Answer any *fifteen* questions : 1×15=15

1. Define mushrooms.
2. What is *Morchella*?
3. What do you mean by toadstools?
4. What is the scientific name of paddy straw mushroom?
5. What is the scientific name of button mushroom?
6. Name an oyster mushroom.
7. What is inoculation loop?
8. What do you mean by inoculation hook?
9. Define pure culture.
10. How does spawn undergo multiplication?

(7)

11. What is hypha?
12. Name a culture medium for running of mushroom mycelium.
13. What is mushroom bed?
14. Define mycelium.
15. What do you mean by fruiting body?
16. Why is maize straw selected as a substrate for mushroom cultivation?
17. What is pileus?
18. To what class of fungi mushrooms belong?
19. How is mushroom drying performed?
20. What is canning?
21. Name two amino acids found in mushrooms.
22. What is the percentage of protein in mushrooms (dry weight basis)?
23. What do you mean by gills?
24. Name the spores found in mushroom.

(8)

25. Name a mushroom research centre in North-East India.
26. Name mushroom research centre at national level of India.
27. Name a toxin present in poisonous mushroom.
28. Name a poisonous mushroom.
29. What is the incubation temperature of mushroom mycelium?
30. Define mycotoxin.

SECTION—B

Answer any *five* questions :

2×5=10

31. Write a brief history of mushroom culture technology.
32. Draw and label a typical mushroom.
33. Name some locally available substrates for mushroom cultivation.
34. Write about medium sterilization.

(9)

35. Write a brief note on paddy straw as a substrate for mushroom cultivation.
36. Point out the factors affecting mushroom bed preparation.
37. Write about short-term storage of mushroom.
38. Write a note on vitamins found in mushrooms.
39. Give a brief account of marketing of mushrooms in India.
40. Write about export value of mushrooms.

SECTION—C

Answer any *five* questions :

5×5=25

41. Describe the nutritional value of edible mushrooms.
42. Give a detailed account of medicinal value of edible mushrooms.
43. Give an illustrated account of cultivation of oyster mushroom.

(10)

44. Describe the preparation of mushroom spawn.
45. Describe composting technology in mushroom production.
46. Give an account of preparation of mushroom bed.
47. Describe long-term storage of mushrooms.
48. Describe carbohydrates and crude fibre content present in mushrooms.
49. Describe various types of food items prepared from mushrooms.
50. Describe cost-benefit ratio of mushroom cultivation.

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