CENTRAL LIBRARY N.C.COLLEGE

2024/TDC (CBCS)/EVEN/SEM/ BOTSEC-601T (A/B)/039

TDC (CBCS) Even Semester Exam., 2024

BOTANY

(6th Semester)

Course No.: BOTSEC-601T

(Nursery and Gardening/Mushroom Culture Technology)

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)

UNIT-I

- 1. Answer any *three* of the following questions:

 1×3=3
 - (a) What is seed bed?
 - (b) Define plant nursery.

24J/676 (Turn Over)

(2)

	(c)	What is direct seeding?
	(d)	What is seasonal nursery?
2.	Ans	wer any <i>one</i> of the following questions:
	(a)	Point out the objective of plant nursery.
	(b)	Write about scope of plant nursery.
3.	Ans	wer any <i>one</i> of the following questions: 5
	(a)	Give a detailed account of building up of infrastructure for nursery.
	(b)	Describe seasonal activities in plant nursery.
		UNIT—II
4.	Ans	wer any <i>three</i> of the following questions : 1×3=3
•	(a)	What is seed germination?
	(b)	Define stratification.
	(c)	What is seed viability?
	(d)	Define orthodox seeds.
24J/	676	(Continued)

5.	Ansv	wer any <i>one</i> of the following questions:
	(a)	Write a note on seed storage.
	(b)	What is genetic erosion?
6.	Ans	wer any <i>one</i> of the following questions:
	(a)	Give an illustrated account of seed testing and certification.
	(b)	Describe causes of seed dormancy and factors breaking it. 2+3=5
		Unit—III
7.	Ans	wer any <i>three</i> of the following questions: 1×3=3
	(a)	What is glasshouse?
	(b)	What is grafting?
	(c)	Define shade house.
	(d)	Define air layering.
8.	Ans	swer any <i>one</i> of the following questions:
	(a)	Write a note on mist chamber.
	(b)	Write about selection of cutting.
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(4)

9.	Ans	wer any one of the following questions:	5
	(a)	Give an illustrated account of rooting medium and planting of cuttings. 21/2+21/2=	=5
	(b)	Write a note on hardening of plants.	
		Unit—IV	
10.	Ans	wer any <i>three</i> of the following questions : 1×3=	=3
	(a)	Define gardening.	
	(b)	What is soil layering?	
	(c)	Define kitchen garden.	
	(d)	What is manuring?	
11.	Ans	wer any one of the following questions:	2
	(a)	Write a note on landscape gardening.	
	(b)	Give a short account of home gardening.	
12.	Ans	wer any <i>one</i> of the following questions:	5
	(a)	Give a detailed account of gardening operations.	
	(b)	Give an account of objectives and scope	

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UNIT\	7	7	IT	N	U	
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13.	Answer any three of the following questions			: 1×3=3	
	(a)	Define seedlings.			

- (b) Write the scientific name of brinjal.
- (c) Write the scientific name of onion.
- (d) What is seed sowing?
- 14. Answer any one of the following questions: 2(a) Write a note on cultivation of cabbage.
 - (b) Write about cultivation of lady's finger.
- 15. Answer any one of the following questions: 5
 - (a) Describe storage procedures of vegetables.
 - (b) Give an account of raising of seeds and seedlings.

of gardening.

(6)

OPTION-B

Course No.: BOTSEC-601T (B)

(Mushroom Culture Technology)

UNIT-I

1. Answer any three of the following questions:

 $1 \times 3 = 3$

- (a) Define mushrooms.
- (b) What is toadstool?
- (c) What is Pleurotus?
- (d) Write the scientific name of button mushroom.
- 2. Answer any one of the following questions: 2
 - (a) Write a note on poisonous mushrooms.
 - (b) Write about Volvariella volvacea.
- 3. Answer any one of the following questions: 5
 - (a) Write a note on history of mushroom cultivation. Briefly explain the nutritional value of mushrooms.

21/2+21/2=5

(b) Describe medicinal value of edible mushrooms.

(7)

UNIT-II

4. Answer any three of the following questions:

1×3=3

- (a) Define spawn.
- (b) What is inoculation hook?
- (c) What is sterilization?
- (d) Name some locally available substrates for mushroom cultivation.
- 5. Answer any one of the following questions: 2
 - (a) Write a note on culture rack.
 - (b) Write about pure culture.

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- 6. Answer any one of the following questions: 5
 - (a) Give a detailed account of cultivation technology of edible mushrooms.
 - (b) Describe the procedure for spawn preparation.

(Continued)

(Turn Over)

(8)

UNIT-III

- 7. Answer any three of the following questions:

 1×3=3
 - (a) Define mushroom bed.
 - (b) What is composting?
 - (c) What is fruiting body?
 - (d) What is the benefit of maize straw?
- 8. Answer any one of the following questions: 2
 - (a) Write about paddy straw as a substrate for mushroom cultivation.
 - (b) Write a note on banana leaves for mushroom cultivation.
- 9. Answer any one of the following questions: 5
 - (a) Describe various factors affecting mushroom bed preparation.
 - (b) Give an account of low-cost technology in connection with mushroom cultivation.

UNIT--IV

10. Answer any three of the following questions:

 $1 \times 3 = 3$

2

- (a) What is the percentage of protein in mushrooms?
- (b) What is the average shelf life for mushrooms?
- (c) What is drying?
- (d) Name some mineral elements present in mushroom.
- 11. Answer any one of the following questions:
 - (a) Write a note on crude fibre content of edible mushrooms.
 - (b) Write about short-term storage of mushrooms.
- 12. Answer any one of the following questions: 5
 - (a) Give an account of long-term storage of mushrooms.
 - (b) Write an explanatory note on mushroom proteins.

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(Turn Over)

(Continued)

15. Answer any one of the following questions:

UNIT-V

13. Answer any three of the following questions:

 $1\times3=3$

- (a) Name two types of food prepared from mushrooms.
- (b) Name the biochemical composition of mushrooms.
- (c) Name one amino acid present in mushrooms.
- (d) Why are mushrooms important for diabetic patients?
- 14. Answer any one of the following questions:
 - (a) Write a note on export value of mushrooms.
 - (b) Give a short account of cost-benefit ratio in connection with mushroom cultivation.

- (a) Give a detailed account of mushroom marketing in India and abroad.
- (b) Describe various Research Centres of Mushrooms at National and Regional levels.

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