2023

BOTANY — HONOURS

Paper: SEC-1

(Mushroom Cultivation Technology)

Full Marks: 75

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words

as far as practicable.

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1.	Answer	amv	CI.	questions	•
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MURALIDHAR GIRLS' COLLEGE

 $2\times$

- (a) Name two medicinal mushrooms.
- (b) Name two National Level Mushroom Research Centres in India.
- (c) What is spawn?
- (d) What is amatoxin? State its source.
- (e) Name two sub-tropical mushrooms cultivated in India.
- (f) Name two low-cost substrates used for mushroom cultivation in India.
- (g) Mention two symptoms of mushroom poisoning.
- (h) Why are mushrooms not stored below 4°C?
- (i) Write one example each of poroid and gilled mushroom.

2. Write notes on (any three):

5×3

- (a) Layout of mushroom unit
- (b) Poisonous mushrooms
- (c) Types of sterilization method used for mushroom cultivation
- (d) Health benefits of mushrooms
- (e) Uses of spent mushroom substrate.

3. Answer any four questions:

- (a) (i) Classify mushrooms on the basis of their taxonomic group, climatic conditions and uses.
 - (ii) Write the objectives of mushroom cultivation.

8+4

(b) What do you mean by composting? Write the phases of composting process in mushroom cultivation.

Distinguish between short and long composting methods.

2+5+5

Please Turn Over

- (c) (i) Describe the procedure of cultivation of any one medicinal mushroom you have studied.
 - (ii) Give an outline idea of strain improvements in cultivated mushrooms.

8+4

- (d) (i) Name two chemicals used for storage of mushrooms. Write a concise account of different methods used for long-term storage of mushrooms.
 - (ii) State the importance of 'Laminar airflow' and 'Autoclave' in mushroom cultivation.

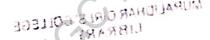
(2+6)+4

- (e) Write the followings:
 - (i) Diseases of mushrooms and their management strategies.
 - (ii) Prospects of marketing of mushroom in India.
 - (iii) Preparation of bed for cultivation of Paddy straw mushroom.

4+4+4

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