

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.*

1. Answer *any six* questions :

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

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2×6

2. Write notes on (*any three*) :

- Layout of mushroom unit
- Poisonous mushrooms
- Types of sterilization method used for mushroom cultivation
- Health benefits of mushrooms
- Uses of spent mushroom substrate.

5×3

3. Answer *any four* questions :

- Classify mushrooms on the basis of their taxonomic group, climatic conditions and uses.
 - Write the objectives of mushroom cultivation.
- What do you mean by composting? Write the phases of composting process in mushroom cultivation. Distinguish between short and long composting methods.

8+4

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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