

2025

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 of the following : 2×6
 - (a) Name two amino acids found in mushroom.
 - (b) What is amatoxin? Mention its source.
 - (c) Name two mushrooms having anticancer property.
 - (d) Write the scientific names of two edible mushrooms.
 - (e) Write the use of humidifier in mushroom cultivation.
 - (f) What is 'canning'?
 - (g) What is meant by 'pinning' of mushroom bed?
 - (h) Name two by-products prepared from mushrooms.
 - (i) Name two substrate used for mushroom cultivation.
2. Write short notes on (**any three**) : 5×3
 - (a) Use of spent mushroom substrate
 - (b) Limitations of mushroom cultivation
 - (c) Poisonous mushroom
 - (d) Preparation of compost for button mushroom
 - (e) Methods of moist heat sterilization process.
3. Answer **any four** questions of the following :
 - (a) Write the principle and uses of hot air oven, incubator and laminar air flow in mushroom culture technology. 4+4+4
 - (b) What is pure culture? Name two fungal culture media. Discuss the structural design and layout of mushroom farm. 2+2+8

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- (c) Write short notes on :
- (i) Food preparation from mushrooms
 - (ii) Storage of mushrooms in salt solution. 8+4
- (d) Discuss the commercial cultivation procedure of *Cordyceps* sp. Write a note on medicinal importance of mushrooms. 8+4
- (e) Discuss the processes of strain improvement of cultivated mushrooms. Name two mushroom research centers in India. 10+2
- (f) Mention two fungal diseases of mushroom and their management strategies. Give a general account of mushroom marketing in India. (4+4)+4
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