

2022

BOTANY — HONOURS

Paper : SEC-B-4

(Mushroom Culture Technology)

Full Marks : 80

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 ten** questions from the following : 2×10
- (a) What is 'casing of mushroom bed'?
 - (b) What is pickling?
 - (c) Name a neurotoxin producing mushroom.
 - (d) What are 'Ink cap mushrooms'?
 - (e) Name two subtropical mushroom cultivated in India.
 - (f) Name two amino acids available from mushrooms.
 - (g) Give examples of poroid and gilled mushroom.
 - (h) Name two fungal diseases of edible mushroom.
 - (i) What is Carpophore?
 - (j) Why mushrooms are not stored below 4°C?
 - (k) Name the mushroom cultivated commercially first time in India.
 - (l) What do you mean by storage of mushroom?
 - (m) Name the chemicals used for mushroom canning.
 - (n) What is dry heat sterilization?
 - (o) Write the name of National Mushroom Research Centre of India.
2. Write short notes on the following (**any four**) : 5×4
- (a) Methods of spawn preparation
 - (b) Role of mushroom in Food Industry
 - (c) Anticancer properties of mushroom
 - (d) Cost benefit ratio of mushroom cultivation
 - (e) Mushroom marketing
 - (f) Short composting.

Please Turn Over

3. Answer *any four* questions from the following :

- (a) Describe mushroom unit (Thatched House). Write a short note on use of culture rack in mushroom cultivation. 5+5
 - (b) What is vacuum cooling? Write the characteristic features of mushroom. Write in brief the medicinal importance of mushroom. 2+3+5
 - (c) Briefly describe the objectives of mushroom cultivation. Mention the major problems in mushroom cultivation. 5+5
 - (d) How can sugarcane trash and banana leaves are used for mushroom bed preparation? Give an outline of bed preparation for cultivation of paddy straw mushroom. 6+4
 - (e) Write a note on Indian edible varieties of mushroom. Discuss about health hazards caused by poisonous mushrooms. 4+6
 - (f) State the differences between short term and long term storage methods of mushroom. Discuss the different methods for long term storage of mushrooms. Name two chemicals used in storage of mushroom. 4+4+2
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