## 2021

## **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:

 $2\times10$ 

- (a) Give an example of edible mushroom from ascomycetes.
- (b) What is spawn?
- (c) What is compost?
- (d) Name two artificial culture media for mushroom cultivation.
- (e) Name any two mushroom research centres of India.
- (f) Name two surface sterilizing agents.
- (g) Write the identifying characters of poisonous mushrooms.
- (h) What do you mean by food values of mushroom?
- (i) Why calcium hydroxide is used in paddy straw mushroom cultivation process?
- (j) What is the ideal pH of mushroom substratum?
- (k) What is Golden Oyster mushroom?
- (1) What are amatoxins? State its source.
- (m) State the role of brine in mushroom storage.
- (n) Name two food items prepared from mushrooms.
- (o) What do you mean by browning of Agaricus fruit body?
- **2.** Write short notes on the following (any four):

5×4

- (a) Types of sterilization methods used in mushroom cultivation.
- (b) Mushroom canning technique.
- (c) Low cost technology for mushroom cultivation.
- (d) Cage method of Paddy Straw mushroom cultivation.
- (e) Health benefits of mushrooms.
- (f) Types of mushroom bed preparation.

Please Turn Over

- 3. Answer any four questions from the following:
  - (a) What is mother culture? Describe the process of composting in mushroom cultivation.
  - (b) (i) What are the advantages of cultivation of paddy straw mushroom?
    - (ii) Explain in brief the process of substrate preparation for cultivation of Oyster mushroom. 5+5

2+8

- (c) Describe the prospects of marketing of mushrooms. Write in brief the use of polythene bags and vessels for mushroom cultivation.

  4+3+3
- (d) What are the steps for mushroom cultivation? State the importance of mushroom storage. Mention the different methods of short term storage of mushrooms.

  3+2+5
- (e) What do you mean by toxic mushroom? With suitable illustrations discuss the effect of toxins present in common poisonous mushroom strains.

  2+8
- (f) Write about the types of nutrients present in edible mushroom. Briefly state the benefits of mushroom in daily diet.