

(6 pages)

Reg. No. :

Code No. : 8418

Sub. Code : HBOE 41

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2014.

Fourth Semester

Botany

Elective — MUSHROOM CULTIVATION

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Basidiomycetous mushroom's fruit body is known as
(a) Ascocarp (b) Basidiocarp
(c) Cleistothecium (d) Apothecium
2. Mushroom mycelium growing on a given substrate and further used as seed is called
(a) Substrate (b) Medium
(c) Fruit body (d) Spawn

3. The biological name of white milky mushroom is
(a) Calocybe (b) Agaricus
(c) Lentinus (d) Volvariella
4. The relative humidity of mushroom growing room should range from (in %)
(a) 90-95 (b) 95-100
(c) 85-90 (d) 70-80
5. The fumigator used to sterilize paddy straw-used for cultivation of *Pleurotus*
(a) Methyl bromide
(b) Hydrogen peroxide
(c) Sodium chloride
(d) Calcium chloride
6. The 1st crop of *Volvariella* is usually harvested after _____ days of spawning.
(a) 20 (b) 10
(c) 30 (d) 40
7. In *Agaricus bisporus* verticillium disease is caused by
(a) Bacteria (b) Nematodes
(c) Mites (d) Fungi



8. One of the long-term storage of mushroom is
 (a) Canning (b) Cooking
 (c) Packing (d) Refrigeration
9. Shelf-life of mushroom vary from
 (a) 15-25 days (b) 10-25 days
 (c) 1-15 days (d) 1-30 days
10. The expenditure involved in mushroom cultivation is
 (a) Fixed cost
 (b) Variable cost
 (c) Fixed and variable costs
 (d) Machinery cost

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Comment on the present status of mushroom industry in India.
- Or
- (b) Write notes on the poisonous mushrooms, along with the disorders they cause, when eaten.

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12. (a) Explain the life cycle of Calocybe in brief.

Or

- (b) Brief the life cycle of button mushroom.

13. (a) What is spawn? How will you produce it?

Or

- (b) Mention the role of temperature and RH in Calocybe production.

14. (a) Write short notes on management of insect pests in mushroom cultivation.

Or

- (b) What do you mean by canning and pickling? Explain.

15. (a) Write short notes on mushroom recipes.

Or

- (b) Write an account on the present status of mushroom cultivation and economic returns of India.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write an essay on the history of mushroom cultivation.

Or

- (b) "Mushrooms are rich in nutrition and medicinal properties" - Discuss.

17. (a) Enumerate the life cycle of *Pleurotus* in detail.

Or

- (b) Explain the physical factors required for growth of mushroom.

18. (a) Write an essay on the conditions required for cultivation of *Agaricus*.

Or

- (b) Enumerate the factors affecting cultivation of mushroom.

19. (a) Write an essay on diseases caused by fungi during mushroom cultivation.

Or

- (b) Explain the post-harvest techniques adopted for cultivation of mushroom.

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20. (a) Write an essay on long-term storage of mushroom and its role in marketing.

Or

- (b) Enumerate the prospects and scope of mushroom cultivation as Small Scale Industry.

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