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Reg. No. :

Code No. : 6418

Sub. Code : HBOE 41

M.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2016

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. The protein content of Mushroom is

- (a) 20% (b) 30%
(c) 40% (d) 50%

2. Mushrooms are classified into _____
types

- (a) 2 (b) 3
(c) 4 (d) 5

3. The substrate for button mushroom is

- (a) Wood (b) Compost
(c) Paddy straw (d) Coir waste

4. Pleurotus is popularly known as

- (a) Oyster Mushroom
(b) Button Mushroom
(c) Umbrella Mushroom
(d) None

5. Dried cells of Mushroom which are used as food
are called

- (a) Microbial protein
(b) Plant proteins
(c) Food protein
(d) None

6. The Institute associated with food technology is

- (a) CFTRI (b) NEERI
(c) NBRI (d) DST

7. Life period of mushroom can be extended by

- (a) Freeze Drying (b) Bleaching
(c) Spraying (d) None

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8. _____ is called as common Indian mushroom

- (a) Oyster (b) Button
(c) Claviceps (d) Voucheria

9. The medium used for spawn growth is

- (a) YEMA (b) PDA
(c) SA (d) SMA

10. The seed material for mushroom cultivation is called

- (a) Conidia (b) Spawn
(c) Sett (d) Grass

PART B — (5 × 5 = 25 marks)

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

Answer should not exceed 250 words.

11. (a) Describe the structure of Mushroom.

Or

(b) Bring out the different types of mushroom.

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12. (a) Describe the structure of Calocybe.

Or

(b) Write about the different species of mushroom.

13. (a) How spawns are produced?

Or

(b) Write about the medium used for mushroom cultivation.

14. (a) Name the Nematodes that attack mushrooms.

Or

(b) Name the disease that is found in mushroom.

15. (a) Comment on the short term storage of mushroom.

Or

(b) Explain about the marketing of mushroom.

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PART C — (5 × 8 = 40 marks)

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

Answer should not exceed 600 words.

16. (a) Write an essay on Mushrooms.
Or
(b) Give an account of edible and poisonous mushrooms.
17. (a) Write an essay on the role of genetic engineering in improvement of strains of mushroom.
Or
(b) Trace the life cycle of Agaricus.
18. (a) Write an essay on isolation and production of spawns.
Or
(b) Write note on: (i) Harvesting (ii) spawn running.
19. (a) Briefly write about the diseases found in mushrooms and the controlling methods.
Or
(b) Write notes on: Mites and Packaging.
(i) Mites in mushrooms
(ii) Packaging of mushrooms.

20. (a) Bring out the prospects and scope of mushroom cultivation.

Or

- (b) Trace the International trade of mushroom in detail.
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