

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E01517

Course Code : 25USMB11

UG Degree - End Semester Examinations, April 2026

First Semester

B.Sc., MICROBIOLOGY

Mushroom Technology

(For those who joined in June 2025 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

- CO:2 1. What is the scientific name of the button mushroom?
K:1
(a) *Pleurotus ostreatus* (b) *Lentinula edodes*
(c) *Agaricus bisporus* (d) *Volvariella volvacea*
- CO:2 2. Which part of the mushroom is typically consumed?
K:1
(a) Roots (b) Spores
(c) Leaves (d) Stem and cap
- CO:3 3. What is the primary role of spawn in mushroom cultivation?
K:2
(a) To control humidity (b) To improve substrate structure
(c) To provide nutrients to the mushroom (d) To introduce the mycelium to the substrate
- CO:3 4. Which of the following is a common substrate for growing button mushrooms?
K:1
(a) Straw (b) Sand
(c) Cow dung (d) Compost
- CO:3 5. The process of inducing controlled stress to initiate mushroom formation is known as:
K:2
(a) Spawning (b) Incubation
(c) Casing (d) Pinning

- CO:3 6. What is the first major step in mushroom cultivation after
K:2 preparing the substrate?
(a) Fruiting (b) Incubation
(c) Casing (d) Sterilization
- CO:3 7. Which factor is crucial for proper mycelium growth?
K:2 (a) High light exposure (b) Low humidity
(c) Adequate moisture (d) Alkaline pH
- CO:3 8. What is the role of casing soil in mushroom cultivation?
K:2 (a) To provide nutrients (b) To maintain pH balance
(c) To improve aeration (d) To initiate fruiting
- CO:2 9. Which vitamin is abundantly found in button mushrooms?
K:1 (a) Vitamin A (b) Vitamin C
(c) Vitamin D (d) Vitamin K
- CO:1 10. What is the other name of Mushroom?
K:1 (a) Funaria (b) Dryopteris
(c) Agaricus (d) Feru

PART - B (5 X 5 = 25 Marks)

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

Answer should not exceed 250 words.

- CO:1 11. (a) Simplify the Taxonomical rank of mushroom.

K:2

(OR)

- (b) List the Vegetative characteristics of poisonous mushrooms.

- CO:2 12. (a) Examine about the applications of paddy Straw Mushroom.

K:2

(OR)

- (b) Analyze the major importance's of Milky Mushroom.

- CO:4 13. (a) Discover the steps involved in culture media preparation.

K:3

(OR)

- (b) Construct the strategy for preparation of mother spawn.

- CO:4 14. (a) Inspect the Insect pest management methods for Mushroom
K:3 Flies.

(OR)

(b) Distinguish the diseases caused by Nematode from Mites for Mushroom cultivation.

CO:5 15. (a) Develop the plan for Quality assurance for the Value added
K:4 Products.

(OR)

(b) List the Mushroom Research centers in India.

PART - C (5 X 8 = 40 Marks)

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

Answer should not exceed 500 words.

CO:1 16. (a) Examine the History and scope of mushroom cultivation in
K:2 India.

(OR)

(b) Identify the Vegetative characteristics of edible mushrooms.

CO:2 17. (a) Assess the importance's of Button and Oyster Mushroom.

K:3

(OR)

(b) Inspect the applications of any two examples of Common Edible mushroom.

CO:3 18. (a) Discover the major steps involved in Spawn preparation

K:3

(OR)

(b) Develop the technology for Storage and Transportation of Spawn.

CO:4 19. (a) Classify the differences between Dry Bubble disease and Wet
K:4 Bubble disease.

(OR)

(b) Discuss the Major diseases affecting cultivated Mushroom.

CO:5 20. (a) Elaborate the mushroom based Value added Products.

K:3

(OR)

(b) Discuss about the Marketing Strategies for mushroom products.