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**BRAINWARE UNIVERSITY**

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Kolkata, West Bengal-700125

Term End Examination 2025-2026**Programme – B.Sc.(FND)-Hons-2024/B.Sc.(FND)-Hons-2025****Course Name – Mushroom Cultivation****Course Code - BFD20002****(Semester II)****Full Marks : 60****Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the highest taxonomical rank of mushrooms.
 - a) Family
 - b) Kingdom
 - c) Order
 - d) Class
- (ii) State the scope of mushroom cultivation.
 - a) Limited to tropical regions
 - b) Only applicable in urban settings
 - c) Significant medicinal and nutritional value
 - d) Restricted to certain animal habitats
- (iii) Describe a key aspect of the history of mushroom cultivation.
 - a) It started in the 21st century
 - b) It has always been a major agricultural practice
 - c) Ancient Egyptians were the first to cultivate mushrooms
 - d) It gained popularity during the Renaissance period
- (iv) Compare the taxonomical ranks of mushrooms and plants.
 - a) By discussing their similarities in reproduction
 - b) By contrasting their cellular structures
 - c) By analyzing their evolutionary history
 - d) By outlining their differences in nutritional content
- (v) Identify the mushroom variety commonly known as "the rice straw mushroom".
 - a) Button mushroom
 - b) Milky mushroom
 - c) Oyster mushroom
 - d) Paddy straw mushroom
- (vi) Compare the sterilization and pasteurization in substrate preparation.
 - a) Sterilization uses lower temperatures compared to pasteurization.
 - b) Pasteurization eliminates all microorganisms, while sterilization does not.
 - c) Sterilization is suitable for all mushroom varieties, while pasteurization is not.
 - d) Pasteurization is achieved with chemical solutions, while sterilization uses steam.
- (vii) Identify mushrooms generally require a relative humidity of:

- a) Starting a mushroom farm is always a guaranteed success.
- b) Feasibility depends on factors like initial investment, market demand, and production costs.
- c) Large-scale mushroom production is the only profitable option.
- d) Fresh mushrooms are the only profitable product from a mushroom farm.

7. Discuss the mushrooms as nutraceuticals. (5)
8. Describe steeping preserving procedure with description. (5)
9. Describe the beneficial effect of polysaccharide of mushroom. (5)
10. Describe the factors affecting the yield of mushroom. (5)
11. Evaluate any three bacterial diseases of mushroom with preventive measures. (5)
12. Explain the role of composting technology in mushroom cultivation and analyse the different composting methods for the successful composting process in mushroom substrates preparation. (5)

OR

Explain the concept of integrated pest management (IPM) in the context of mushroom cultivation. (5)

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