GURUDAS COLLEGE

B. Sc. SEMESTER IV (Honours) Examination Online Internal Examination, 2020

Subject: BOTA Subject Category: Honours Course: SEC-B-4-4

Course Name: Mushroom Culture Technology

Full Marks: 50 Date of Examination: 9th December, 2020

The figures in the margin indicate full marks Candidates are required to give their answers in their own words as far as practicable

Answer each group in a new page

GROUP-A: (THEORY) Mushroom Culture Technology BOT-A-SEC-B-4-4 FM=40

1. Answer any 13 questions from the following:

2 X 13

- i. Name two poisonous mushrooms.
- ii. What is spawn?
- iii. What is button stage? In which mushroom is it found?
- iv. Write the substrate for the cultivation of Volvariella volvacea.

- v. Where is the National Centre for Mushroom Research and Training (NCMRT) located in India?
- vi. Name one basidiomycetous and one ascomycetous mushroom.
- vii. Write the full form of PDB? Why is it required in the spawn preparation?
- viii. Mention two common diseases in mushroom cultivation.
- ix. In which mushroom cultivation pin head stage is found?
- x. Write two food dishes prepared from mushroom.
- xi. Why sterilization of substrate is required for the cultivation of mushroom?
- xii. Write the scientific names of button mushroom and oyster mushroom cultivated in India.
- xiii. Write two short term storage techniques of mushroom.
- xiv. Name two unusual amino acids found in mushroom.
- xv. Mention two international mushroom research centres.
- xvi. Name one physical and one chemical sterilization process in mushroom cultivation.
- xvii. Mention any one category of mushroom of India on the basis of its ability to colonise the natural habitat with one example.
- xviii. Why edible mushrooms are called as SCP?
- 2. Choose any one question from the following 14 X 1
 - i. Write a short note on the sterilization process in mushroom cultivation.
 - ii. Write a short note on the food value of mushroom.
 - iii. Write briefly on the long term storage techniques of mushroom.

- iv. Write a short note on the spawn preparation methodology for mushroom cultivation.
- v. Write a short note on the medicinal value of mushroom.
- vi. Classify mushrooms on the basis of their use.

GROUP- B (Internal Assessment) Mushroom Culture Technology FM-10

3. Answer any five from the following

 2×5

- a. Of the different nutritional elements present in mushroom, which one is highest?
- i. Carbohydrate
- ii. Protein
- iii. Fat
- iv. Cholesterol
- b. The advantages of cultivation of edible mushrooms are
- i. Cheap substrates
- ii. Excellent flavour
- iii. High vitamins
- iv. All of the above
- c. Essential amino acid found in mushroom is
 - i. Lysine
 - ii. glutamic acid

- iii. glycine
- iv. methionine

d. Which of the following is known as MILKY MUSHROOM?

i. Volvariella sp ii. Agaricus sp iii. Amanita sp iv.Calocybe sp

e. Directorate of mushroom research (ICAR) is situated at

- i. Delhi
- ii. Pune
- iii. Solan
- iv.Kolkata

f. Fill in the blank.

For the production of white button mushroom, after casing is done, the room temperature should be maintained at temperature and at relative humidity 85-90% for 8-10 days.

i. 23-28°C
ii. 1-5°C
iii. 40-45°C
iv. 10-14°C

g. Which state from the following is NOT a major major mushroom producing states in India?

i. Uttar Pradesh ii. Tripura iii. Maharashtra, iv.Tamil Nadu

h. Choose the correct option

i. Compost is the substrate on which the mushrooms are cultivated.

ii. Compost is used in the post harvest stage when the mushrooms are cultivated.

iii. The yield of the mushroom does not depend on the compost.

iv. Compost can only be synthetic in nature.

Instructions for submission of answer scripts

- 1. Write the front page/top sheet as per instruction. Give page numbers to each page.
- 2. Scan the pages in sequence and make a single PDF file.
- 3. Rename file as per instruction.
- 4. Email the PDF file within the stipulated time to

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and also give CC email to

gdccug20@gmail.com and botahons2020@gmail.com