

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
F. Y. B. Sc. Sem-II : WINTER- 2022
SUBJECT : BOTANY : INDUSTRIAL BOTANY-I

Day : Monday

Time : 02:00 PM-05:00 PM

Date : 19-12-2022

W-18326-2022

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

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- Q.1** Attempt **ANY TWO** of the following: **(12)**
- a) Describe advantages and disadvantages of chemical fertilizers.
 - b) Explain the scope in commercial cultivation of mushroom.
 - c) Describe plant base chemical products pheromones and *Trichoderma*.
- Q.2** Attempt **ANY TWO** of the following: **(12)**
- a) Explain edible and poisonous mushroom with suitable examples.
 - b) Describe steps involved in the production of *Rhizobium* biofertilizer.
 - c) Explain health hazards due to pesticides and fungicides.
- Q.3** Attempt **ANY TWO** of the following: **(12)**
- a) What is biofertilizers? Give its application in agriculture with reference to blue green algae.
 - b) Describe various steps of tissue culture method.
 - c) Explain industrial waste used for production of bioenergy.
- Q.4** Attempt **ANY THREE** of the following: **(12)**
- a) Describe scope and importance of industrial botany.
 - b) Comment on nonconventional food with reference to fungi and bacteria.
 - c) Define bioenergy. Describe importance of bioenergy plantation.
 - d) Explain cultivation method of *Spirulina* and give its role in human life.
- Q.5** Attempt **ANY FOUR** of the following: **(12)**
- a) Give an outline in cultivation of *Agaricus bisporus*.
 - b) What is spawn?
 - c) Give nutritive value of mushroom.
 - d) What is biopesticide?
 - e) Explain importance of Callus in tissue culture.
 - f) What is neem cake?

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