

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
T. Y. B. Sc. Sem-VI :SUMMER- 2022
SUBJECT : BOTANY : INDUSTRIAL BOTANY-II

Day : Tuesday
Date : 12/7/2022

S-18482-2022

Time : 11:00 AM-02:00 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Draw neat and labeled diagram wherever necessary.
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- Q.1** Attempt **ANY TWO** of the following : (12)
- a) Give merits and demerits in biogas production.
 - b) Explain concept of conservation of generic resource.
 - c) Describe somatic embryogenesis.
- Q.2** Attempt **ANY TWO** of the following : (12)
- a) Explain manufacture of *Penicillin*.
 - b) Describe products and by products of fermentation.
 - c) Give application of plant tissue culture.
- Q.3** Attempt **ANY TWO** of the following : (12)
- a) Describe protoplast isolation and culture.
 - b) Give types of bioreactors.
 - c) Explain commercialization of micro-propagation.
- Q.4** Attempt **ANY THREE** of the following : (12)
- a) Describe biotechnology based business.
 - b) Give applications of enzymes in Industry and Media.
 - c) Explain applications of patent and its significance.
 - d) Describe the petro-crops that you have studied.
- Q.5** Attempt **ANY FOUR** of the following : (12)
- a) Explain concept of bio-plastic.
 - b) Give role of plants in pollution control.
 - c) What is totipotency and cell differentiation?
 - d) Give types of biofuels.
 - e) Describe green-house technology.
 - f) Give scope and importance of Industrial botany.
