

T.Y.B.SC. SEM – VI (CBCS - 2016 Course) : SUMMER - 2019

SUBJECT : BOTANY : INDUSTRIAL BOTANY – II

Day : Saturday
Date : 27/04/2019

S-2019-0917

Time : 03.00 P.M. To 06.00 P.M
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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- Q. 1** Answer **ANY TWO** of the following: (12)
- a) Give application of bioethanol.
 - b) Describe the petro-crops that you have studied.
 - c) What is explant and describe method for obtaining explant?
- Q. 2** Answer **ANY TWO** of the following: (12)
- a) Explain concept of environmental biotechnology.
 - b) Comment on importance of biological fuels.
 - c) Describe scope and importance of Industrial botany.
- Q. 3** Answer **ANY TWO** of the following: (12)
- a) Explain concept of bioplastic.
 - b) Describe application of enzymes and its application.
 - c) Give biotechnology based business.
- Q. 4** Answer **ANY THREE** of the following: (12)
- a) Describe organic farming and its importance.
 - b) Give concept of greenhouse technology.
 - c) Explain bi-products of fermentation.
 - d) Explain manufacture of *Penicillin*.
- Q. 5** Answer **ANY FOUR** of the following: (12)
- a) Describe commercialization of micro propagation.
 - b) Which are process of fermentation?
 - c) Describe protoplast isolation and culture.
 - d) Give application of tissue culture in agriculture.
 - e) Describe active sludge fermenter of waste water treatment.
 - f) Explain haploids in agriculture.

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