

T.Y.B.SC. SEM – VI (2014 COURSE) : WINTER - 2017
SUBJECT : BOTANY : INDUSTRIAL BOTANY – II

Day Wednesday
Date 01/11/2017

W-2017-0692

Time 12.00 NOON TO 02.00 PM
Max. Marks : 40

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: **[10]**

- a) Explain somatic embryogenesis in plant tissue culture.
- b) Explain micropropagation for commercialization.
- c) Give applications of enzymes in industrial biotechnology.

Q.2 Attempt **ANY TWO** of the following: **[10]**

- a) Explain concept of biogas production.
- b) Explain process of citric acid manufacture in fermentation technology.
- c) What is biotechnology? Explain its business opportunities in India.

Q.3 Attempt **ANY TWO** of the following: **[10]**

- a) What is concept of bioplastic? Give its role in environment pollution.
- b) What is degradation? Describe processes of oil spills degradation.
- c) What is organic farming? Explain its applications in agriculture.

Q.4 Attempt **ANY FIVE** of the following: **[10]**

- a) Enlist byproducts of fermentation.
- b) Explain scope of plant tissue culture.
- c) Write a note on petrocrops.
- d) Write note on Hybridoma technology.
- e) Write in brief applications of bioethanol.
- f) Comment on genetic resources.
- g) Give significance of patent in research.

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