

F.Y.B.Sc. SEM – II (CBCS 2018 COURSE) : SUMMER - 2019

SUBJECT: BOTANY: INDUSTRIAL BOTANY – I

Day: Wednesday
Date: 24/04/2019

S-2019-0790

Time: 11.00 A.M TO 02.00 PM
Max Marks. 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Draw neat and labeled diagrams **WHEREVER** necessary.
 - 3) Figures to the right indicate **FULL** marks.
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Q.1 Attempt **ANY TWO** of the following: (12)

- a) Give merits and demerits of biogas.
- b) What are petrocrops? Explain their importance.
- c) Comment on r-DNA technology.

Q.2 Attempt **ANY TWO** of the following: (12)

- a) Enlist products and byproducts of fermentation.
- b) Describe the environmental and health hazards due to pesticide and fungicide.
- c) Describe cultivation of mushroom in detail.

Q.3 Attempt **ANY TWO** of the following: (12)

- a) Give scope and importance of Industrial Botany.
- b) Explain concept of biodegradable and non – residual effect of biopesticide.
- c) Give concept of non – conventional food Industry.

Q.4 Attempt **ANY THREE** of the following: (12)

- a) Give merits of *Spirulina*.
- b) What are biofertilizers? Describe the types of biofertilizers.
- c) Which are the anaerobic waste water treatments.
- d) Describe spawn preparation procedure in brief.

Q.5 Attempt **ANY FOUR** of the following: (12)

- a) What are phages? Give their properties.
- b) Describe the gaseous fuels.
- c) Give concept of scaling up.
- d) Explain how organic farming is helpful for the human health.
- e) Describe tubular tower fermenter.
- f) Enlist edible and non – edible mushroom.

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