Total number of printed pages-3

3 (Sem-1/CBCS) BOT HC 1

2020

(Held in 2021)

BOTANY

(Honours)

Paper : BOT-HC-1016

(Phycology and Microbiology)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer the following: 1.

 $1 \times 7 = 7$

- What is pyrenoid? (a)
- (b) Who discovered the smallpox vaccine?
- The sexual reproduction in Vaucheria (c) is of _____ type. (Fill in the blank)
- (d) What is facultative anaerobe?
- (e) Botulism is caused by _____. (Fill in the blank)

Contd.

- (f) Who is regarded as the father of modern Phycology of India ?
- (g) What do you mean by chemoautotrophs?
- 2. Write brief notes on the following: $2 \times 4 = 8$
 - (a) Pasteurization
 - (b) Akinetes
 - (c) Capsid
 - (d) Biofertilizer.
- 3. Write briefly on **any three** of the following: 5×3=15
 - (a) Role of algae as medicine
 - (b) Economic importance of diatoms
 - (c) Structure of TMV
 - (d) Oogamous reproduction in algae
 - (e) Role of bacteria in biotechnology.
- 3 (Sem-1/CBCS) BOT HC 1/G 2

- 4. Answer **any three** of the following: 10×3=30
 - (a) Describe the thallus range of thallus structure in Chlorophyceae.
 - (b) Give an account of conjugation in bacteria.
 - (c) Discuss the origin and evolution of sex in algae.
 - (d) Give an account of the economic importance of viruses.
 - (e) Discuss briefly about the various nutritional groups of microorganisms.
 - (f) Give a detailed account on the life cycle of Polysiphonia.

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