

BACHELOR OF SCIENCE (CBCS-2018 COURSE)

T. Y. B. Sc. Sem-V : WINTER :- 2021

SUBJECT: BOTANY : BIOLOGY OF LOWER CRYPTOGAMS (ALGAE & FUNGI)

Day : Wednesday

Date 19-01-2022

W-18422-2021

Time : 02:00 PM-05:00 PM

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 Attempt **ANY TWO** of the following : (12)

- a) Give classification of Algae according to G. M. Smith.
- b) Describe various types of spores occurring in fungi.
- c) Give vegetative structure of *Volvox*.

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

- a) Describe difference between *Mucor* and *Rhizopus*.
- b) Give economic importance of algae as medicine and food.
- c) Explain ultrastructure of algal cell as a prokaryotic (Cyanophyceae).

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

- a) Describe cell organization of algae.
- b) Give forms of thallus in fungi.
- c) Explain internal structure of thallus in *Sargassum*.

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

- a) Give uses of fungi.
- b) Explain reproduction in *Rhizopus*.
- c) Give distinguishing characters of Division – Chlorophyta and Phaeophyta.
- d) Describe pigments and stored food in algae.

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

- a) Explain aquaculture of algae in human welfare.
- b) Give distinguishing characters of *Synchytrium*.
- c) Describe methods of asexual reproduction in Algae.
- d) Describe *Claviceps* in detail.
- e) Explain chartrantial stage of *Batrachospermum*.
- f) Describe globule in *Chara*.

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