

19002843



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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, OCTOBER 2019

First Semester

Faculty of Science

Branch VI—Botany

MICROBIOLOGY AND PHYCOLOGY

(2012 to 2018 Admissions)

Time : Three Hours

Maximum Weight : 30

I. Answer any *six* of the following in not less than 50 words each. Weight 1 each :

- 1 What are T-phages ?
- 2 What are algal blooms ? Name *one* factor influencing it.
- 3 What is meant by heterotrichous habit ?
- 4 What are photolithotrophs ?
- 5 What are virusoids ?
- 6 What is Cystocarp ? Name the alga in which it is seen.
- 7 What are the photosynthetic pigments in algae ?
- 8 Name *two* algal biofertilizers.

(6 × 1 = 6)

II. Answer any *seven* of the following in not less than 100 words each. Weight 2 each :

- 9 Explain lysogenic cycle in viruses.
- 10 Mention the industrial uses of algae.
- 11 How algae act on indicators of pollution ?
- 12 What are extremophiles ?
- 13 Explain capsid and their arrangement in viruses.
- 14 Explain transduction in bacteria.
- 15 Describe the ultrastructure of HIV.

Turn over





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- 16 Write notes on mycoplasmas.
- 17 Mention the characteristics of phaeophyta.
- 18 Mention the use of algae in exponential studies.

(7 × 2 = 14)

III. Answer any *two* of the following in not less than 250 words each. Weight 5 each :

- 19 Give an account of the methods of isolating micro-organisms.
- 20 Explain viral oncogenesis.
- 21 Explain the importance and methods of algal culture.

(2 × 5 = 10)

