Total Pages: 2

B.Sc./1st Sem (H)/BOTA/22(CBCS)

2022

1st Semester Examination BOTANY (Honours)

Paper: C 1-T

(Phycology and Microbiology)

[CBCS]

Full Marks: 40

Time: Two Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any five of the following:

 $2 \times 5 = 10$

- (i) What is isomorphic alternation of generation? Give an example.
- (ii) Mention two similarities of blue-green algae and red algae.
- (iii) Write down the importance of algae in soil reclaimation.
- (iv) What is prion? Differentiate it from virus.
- (v) What is palmella stage? Give example.
- (vi) Distinguish between plasmid and virus.
- (vii) What is heterocyst? Give example.

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LLIBP (viii) Name one single stranded DNA and one double stranded RNA virus. 2. Answer any *four* of the following: $5\times4=20$ (i) Discuss the industrial uses of algae. (ii) What is Gongocira stage? Where does it occur? Describe it with suitable sketches. 1+1+3=5(iii) Classify bacteria on the basis of the position of flagella. Links M 5 H (iv) Describe the importance of virus in the production stig to bringer one introduced 5 of vaccine. (v) Draw and describe the sexual organisation of primalist out to will you 12/2+3=5 Chara. (vi) Briefly discuss about the range of thallus structure found in algae. 3. Answer any *one* of the following: $10 \times 1 = 10$ (i) What is transduction? Distinguish it from transformation. Discuss differences between lytic and lysogenic cycle with suitable diagrams. 2011 mod 4 skulmstill turks 1+1+(4+4)=10 (ii) Draw and describe the vegetative and reproductive structures of Oedogonium sp. Write down the function of suffultory cell and holdfast. 2+4+2+2=10