

SH-I/Botany-101C-1(T)/19

B.Sc. Semester I (Honours) Examination, 2018-19**BOTANY****Course ID : 11311****Course Code : SHBOT-101C-1(T)**

Course Title : Phycology and Microbiology

Time: 2 Hours**Full Marks: 25***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* questions from the following: 1×5=5
 - (a) Write two importances of virus.
 - (b) What is meant by auxospore?
 - (c) What is prion?
 - (d) How a spheroplast is formed?
 - (e) What is blepharoplast?
 - (f) Name the female reproductive organ of *chara*.
 - (g) What are the pigments of Rhodophyceae?
 - (h) Why the members of Cyanophyta are called Cyanobacteria?

2. Answer *any two* questions from the following: 5×2=10
 - (a)
 - (i) Write the biological characters of virus. 2
 - (ii) What is meant by heterotrophs. 1
 - (iii) Define peritrichous flagella. 2
 - (b) Describe the range of thallus organization in algae. 5
 - (c) Write short note on *any one*: 5×1=5
 - (i) T-phage
 - (ii) TMV
 - (d) Give a diagrammatic representation of the life cycle of *polysiphonia*. Why is it called triphasic life cycle? 4+1=5

3. Answer *any one* question from the following: 10×1=10
 - (a) Write the sexual reproduction process of *Fucus*. Write a short note on Palmella stage. 8+2=10
 - (b) How does a bacterial cell wall differ from a plant cell wall? Write the importance of bacteria in medicine production. How does virioid replicate? 2+2+6=10