SH-I/Botany-101C-1/19

B.Sc. 1st Semester (Honours) Examination, 2019-20
BOTANY

Course ID : 11311   **Course Code : SHBOT-101C-1**

Course Title: Phycology and Microbiology

Time: 2 Hours   **Full Marks: 25**

The figures in the right hand side margin indicate marks.

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

1. Answer *any five* of the following: 1×5=5

   (a) What is coenobium?

   (b) Name one antibiotic producing bacteria.

   (c) Define vaccine.

   (d) Define Akinete.

   (e) What are viroids?

   (f) What do you mean by Synzoospore?

   (g) What do you mean by Spheroplasts?

   (h) What is auxospore?

2. Answer *any two* of the following: 5×2=10

   (a) Classify virus according to Bultimore.   5

   (b) Briefly discuss regarding the economic importance of Bacteria in Agriculture and fermentation.   2½+2½=5

   (c) What are the main pigments of Phaeophyta? Draw the life cycle of *Ectocarpus*. What is physiological anisogamy?   1+3+1=5

   (d) What is Chrysolaminarin? Describe the sexual cycle of *Vaucheria*.   1+4=5

3. Answer *any one* of the following: 10×1=10

   (a) Distinguish Macrandrous species of *Oedogonium* from Nannandrous species. Describe the sexual cycle of *Chlamydomonas*.   2+8=10

   (b) What is Prophage? Describe the steps of Lytic cycle of a mature Virion with suitable diagram.   2+6+2=10

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