Bankura University

B.Sc 1st SEMESTER(Honours) EXAMINATIONS, 2021

Subject: BOTANY

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

Course Title: Phycology & Microbiology

Full Marks: 25 Time: 1h 15 min

The figures in the margin indicate full marks Answer all the questions.

UNIT I

1. Answer any five of the following questions:

(5X1=5)

- a) Example one dsRNA virus.
- b) What is batch culture?
- c) Example any two industrially important bacteria with their roles.
- d) What is capsomere?
- e) Mention the principal role of heterocyst.
- f) Name one alga possesses c-phycocyanin.
- g) Example any two edible algae.
- **h)** What is pyrenoid?

UNIT II

2. Answer any two of the following questions:

(2X5=10)

- a) Describe the lysogenic cycle with proper sketch.
- **b)** Make a short note about bacterial conjugation with proper diagram.
- c) Discuss the distinguish characters of Cyanophyceae. Why this group is also called 'cyanobacteria'?
- d) Draw the sexual cycle of Chara. Name one Indian species of Chara.

UNIT III

3. Answer any one of the following questions:

(1X10=10)

- a) Give a brief account of the structure of endospore. Describe the detailed structure of TMV.
- **b)** Describe with proper diagram the post –fertilization changes in *Polysiphonia*. Mention the economic values of diatomite.