

বিদ্যাসাগর বিশ্ববিদ্যালয় VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examinations 2020

(Under CBCS Pattern)
Semester - I

Subject: BOTANY

Paper : C 1-T & C 1-P

Phycology and Microbiology

Full Marks: 60 [Theory-40 + Practical-20]

Time: 3 Hours

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

The figures in the margin indicate full marks.

[Theory]

Answer any two questions:

 $20 \times 2 = 40$

- 1. a. Briefly describe about the growth pattern of microbes.
 - b. Write the economic importance of bacteria with reference to their role in agriculture and industry.
 - c. Describe the cell structure of *Chlamydomonas sp.*

6+8+6

- 2. a. Write the classification of Virus according to Baltimore.
 - b. Write a short note on Archaebacteria. What is endospore?
 - c. Describe the male and female reproductive structure of *Chara sp.*

6+(4+4)+6

- 3. a. Describe the conjugation process of Bacterial recombination.
 - b. Write the pigments and reserve food material of different algal division with suitable example. 10+10
- 4. a. Write the evolutionary classification of algae according to Lee.
 - b. What do you mean by synzoospore? Briefly describe the isomorphic alternation of generation. 10+(4+6)

Paper - C 1-P (Practical)

Answer any one question:

 $20 \times 1 = 20$

- 1. a. Write down the Gram staining procedure.
 - b. Draw and label the bacterial binary fission.

10 + 10

- 2. a. Mention the identifying characters of TMV
 - b. Draw and label the vegetative structure of *Chlamydomonas sp*.

10 + 10

- 3. a. Write the process of Endospore staining with malachite green?
 - b. Draw and describe the Study of bacteria from Curd sample.

10 + 10