



2018/TDC/ODD/BOTC-101T/086

TDC (CBCS) Odd Semester Exam., 2018

BOTANY

(1st Semester)

Course No. : BOTHCC-101T

(Algae and Microbiology)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* of the following : $2 \times 2 = 4$

- (a) How viruses are used for vaccine production?
- (b) Name two viruses which cause plant disease.
- (c) State briefly the role of viruses in research.

2. (a) Write a note on different phases in factorial growth. 6

(2)



<http://www.elearninginfo.in> (3)

Or

- (b) Write a note on economic importance of bacteria with reference to their role in agriculture.

UNIT—II

3. Write short notes on any two of the following : $2 \times 2 = 4$

- (a) Lytic cycle
(b) Lysogenic cycle
(c) DNA virus

4. (a) Write notes on general structure of Viroids and Prions. $3 + 3 = 6$

Or

- (b) Give a general account of replication of viruses. 6

UNIT—III

5. Define the following (any two) : $2 \times 2 = 4$

- (a) F. conjugation
(b) F' conjugation
(c) Hfr conjugation

6. (a) Give six differences between eubacteria and archaebacteria. 6

Or

- (b) Write a note on cell structure of bacteria.

UNIT—IV

7. Write short notes on the following (any two) : $2 \times 2 = 4$

- (a) Characteristics of green algae
(b) Characteristics of red algae
(c) Characteristics of brown algae

8. (a) Write a note on Fritsch's classification of algae. 6

Or

- (b) Describe briefly the role of algae in industry.

UNIT—V

9. Answer any two of the following : $2 \times 2 = 4$

- (a) Write a short note on Heterocyst.
(b) Give a brief account of the thallus structure of *vaucheria*.
(c) Write short notes on male and female sex organs of *Chara*.



(4)

10. (a) Write a note on range of thallus organization in chlorophyta.

Or

(b) Describe briefly life cycle of *Ectocarpus*.
