



**2019/TDC/ODD/SEM/
BOTHCC-101T/122**

TDC (CBCS) Odd Semester Exam., 2019

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 questions :

(2×2=4)

(a) Write about microbial metabolism.

(b) Name some viruses causing plant diseases.

(c) Write briefly on role of viruses in medicine.

(2)



<http://www.elearninginfo.in>

(3)

2. (a) Give a general account of microbial nutrition. Add a note on microbial growth. 3+3=6

Or

- (b) Describe economic importance of bacteria with reference to fermentation and medicine. 6

UNIT—II

3. Write notes on any two of the following : 2×2=4

- (a) Physicochemical characteristics of viruses
(b) Biological features of viruses
(c) Discovery of viruses

4. (a) Give an illustrated account of outline classification of viruses proposed by Baltimore. 6

Or

- (b) Write about lysogenic cycle. Add a note on TMV. 3+3=6

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(Continued)

UNIT—III

5. Write on any two of the following : 2×2=4

- (a) General characteristics of bacteria
(b) Binary fission in bacteria
(c) Features of archaebacteria

6. (a) Give an account of transformation in bacteria. Describe briefly the transduction mechanism found in bacteria. 3+3=6

Or

- (b) Write notes on the following : 3×2=6
(i) Mycoplasma
(ii) Spheroplasts

UNIT—IV

7. Answer any two of the following : 2×2=4

- (a) Point out the pigments found in algae.
(b) Write about the role of algae in environment.
(c) Write briefly on the role of algae in agriculture.

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(Turn Over)



8. (a) Give an account of evolutionary classification of algae as proposed by Lee. Add a note on the contribution of M.O.P. Iyenger in Phycology. $4+2=6$

Or

- (b) Mention the cell wall components of algae. Give a detailed account of range of thallus organization in algae. $2+4=6$

UNIT—V

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

- (a) Write the features of Cyanophyta.
(b) Draw the life cycle of *Chlamydomonas*.
(c) Point out the features of *Coleochaete*.

10. (a) Write notes on the following : $3 \times 2 = 6$

(i) *Nostoc*

(ii) *Volvox*

Or

- (b) Give an account of evolutionary significance of *Prochloron*. Add a note on post-fertilization changes in *Polysiphonia*.

$3+3=6$

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