

2020/TDC/ODD/SEM/
BOTP-101/300

(2)

TDC Odd Semester Exam., 2020
held in July, 2021

BOTANY

(Pass)

(1st Semester)

Course No. : BOTP-101

(Diversity of Microbes and Cryptogams)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks
for the questions

Answer **five** questions, selecting **one** from each Unit

UNIT—I

1. (a) Write a note on Koch's postulates. Mention one shortcoming of the method proposed by Robert Koch for determining causal organism of a particular disease. 3+1=4

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(Turn Over)

- (b) What is vaccination? State differences between killed and attenuated vaccines. 1+2=3

2. (a) What is micrometry? 1
(b) Discuss any three chemical means of controlling microorganisms. 6

UNIT—II

3. (a) Write a note on transmission of plant viruses. 4
(b) Write a note on conjugation in bacteria. 3
4. (a) Give general account of *Rickettsia* and *Chlamydia*. 2+2=4
(b) Write a note on bacteriophage T₃. 3

UNIT—III

5. (a) Describe briefly any four economic importance of algae. 4
(b) Give the outline of Fritsch's classification of algae. 3
6. (a) Describe briefly the post-fertilization stages in the life history of *Polysiphonia*. 4

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(Continued)

- (b) State three differences between Chlorophyceae and Rhodophyceae. 3

UNIT—IV

7. (a) What is a basidium? 1
(b) Describe briefly different stages in the life cycle of *Puccinia*. 6
8. (a) State four general characters of fungi. 2
(b) Describe briefly the economic importance of fungi. 5

UNIT—V

9. (a) Describe briefly the thallus structure of *Marchantia*. 3
(b) Write a note on the sporophyte of *Anthoceros*. 4
10. (a) Write a note on the economic importance of Pteridophyta. 3
(b) Describe briefly the pteridophytic flora of your locality. 4

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