

2021/TDC/CBCS/ODD/ BOTHCC-101T/135

TDC (CBCS) Odd Semester Exam., 2021 held in March, 2022

BOTANY

(1st Semester)

Course No.: BOTHCC-101T

(Phycology and Microbiology)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any ten of the following questions: $2 \times 10 = 20$

- 1. Name two plant diseases caused by viruses mentioning the name of pathogens.
- 2. Mention the role of viruses in medicine.
- 3. Write about microbial nutrition.

(2)

4. Draw and label TMV.

BETTEOL-DORTTHE

5. Write a note on T-phage.

6. "Viruses are neither living nor non-living."

Justify.

- 7. Point out the features of eubacteria.
- 8. Write about sphaeroplasts.
- 9. Write the salient features of archaebacteria.
- 10. Write the contributions of M. O. P. Iyengar.
- Give a short account of evolutionary classification of algae as proposed by Lee.
- 12. Mention the role of algae in environment.
- 13. Write the salient features of Nostoc.
- 14. Draw and label Chara to give only
- 15. Point out the features of cyanobacteria.

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(Continued)

(3)

SECTION—B

Answer any five of the following questions: 6×5=30

16. Give a detailed account of bacterial growth.

Add a note on microbial metabolism. 4+2=6

17. Describe economic importance of bacteria in fermentation and medicine. 3+3=6

18. Write notes on the following: 3+3=6

- (a) Viroids
 - (b) Prions
- **19.** Give a detailed account of lytic and lysogenic cycle.

20. Describe cell structure of bacteria. Add a note on mycoplasma. 3+3=6

- **21.** Write notes on the following: 3+3=6
 - (a) Binary fission
 - (b) Conjugation
- 22. Describe Fritsch's system of algal classification. Mention its merits and demerits. 4+2=6

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(Turn Over)

6

| 23. | Give | an | account of | range | of | thallus | |
|-----|------------------------|----|------------|-------|----|----------|------|
| | organization in algae. | | | | | TOWER DE | TO A |

6

24. Write notes on the following:

3+3=6

- Evolutionary significance of Prochloron (a)
- Volvox (b)
- Give a detailed account of Oedogonium with 25. necessary sketches.

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