

Reg. No.....

Name.....

B. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2019**SEMESTER – 1: BOTANY (CORE COURSE)****COURSE: 15U1CRBOT1: MICROBIOLOGY AND PHYCOLOGY***(Common for Improvement 2018/ Supplementary 2018/2017/2016 /2015 admission)*

Time: Three Hours

Max. Marks: 60

PART AI. Answer **ALL** questions; each question carries **1** mark.

1. Who discovered the bacteria?
2. What are bacteriophages?
3. What are planktons?
4. What is pleomorphism?
5. What is nannandrium?
6. Write an example for parasitic algae.
7. What is an amylum star?
8. What is oogamy?

(1 x 8 = 8)

PART BII. Answer **ANY SIX** questions; each question carries **2** marks.

9. What are archaebacteria?
10. What are the chief pigments in blue-green algae?
11. What are retroviruses?
12. What are carotenoids?
13. Write short note on flagella in bacteria?
14. What is the structure of nucle in *Chara*?
15. What are the functions of a heterocyst?
16. Explain the thallus structure of *Vaucheria*.
17. Write a short note on tetrasporophyte in *Polysiphonia*?
18. What is diatomaceous earth?

(2 x 6 = 12)

PART CIII. Answer **ANY FOUR** questions; each question carries **4** marks.

19. Write short note on economic importance of bacteria.
20. Explain the architecture of Tobacco Mosaic Virus.
21. Explain cap cell formation in *Oedogonium*.

- 22. Explain asexual reproduction in *Volvox*
- 23. Write short note on the role of algae is pollution indicator and in waste water treatment.
- 24. Explain the thallus structure of *Sargassum*. (4 x 4 = 16)

PART D

IV. Answer **ANY TWO** questions; each question carries **12** marks.

- 25. Explain the general morphology and structure of virus.

OR

- 26. With suitable diagrams, explain the sexual reproduction in bacteria.
- 27. With the help of diagrams describe the morphology and reproduction in *Pinnularia*.

OR

- 28. Write an essay on the range of thallus structure in algae with suitable examples (12 x 2 = 24)
