Reg. No	Name

B. Sc DEGREE END SEMESTER EXAMINATION - OCTOBER 2019 SEMESTER 1 : BOTANY

COURSE: 19U1CPBOT1: CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(For Regular - 2019 admission)

Time: Three Hours Max. Marks: 60

Section A Answer any 8 (1 marks each)

- 1. Name the isogamous sexual reproductive method in Spirogyra.
- 2. What is the nature of reserve food material in Phaeophyceae?
- 3. What are antibiotics? Give two examples.
- 4. What are the partners found in the thallus of Lichen?
- 5. Describe the antherozoid of *Riccia*.
- 6. Name the type of stele found in *Selaginella* stem.
- 7. Name the negatively geotropic root in Cycas.
- 8. What is the mode of spread of nutfall of areca nut?

 $(1 \times 8 = 8)$

Section B Answer any 6 (2 marks each)

- 9. Explain various asexual reproductive methods that are found in algae.
- 10. Puccinia graminis is a heteroecious species. Justify.
- 11. Explain amphigynous anthredium.
- 12. Describe the thallus structure of *Usnea*.
- 13. How do bryophytes help in soil conservation?
- 14. Distinguish homospory and heterospory.
- 15. What is transfusion tissue?
- 16. Mention the causative organism and control measures of leaf mosaic of tapioca.

 $(2 \times 6 = 12)$

Section C Answer any 4 (5 marks each)

- 17. What are the post fertilization changes in *Polysiphonia*?
- 18. Explain the process of formation of pycnidium in *Puccinia* with the help of suitable diagram.
- 19. Comment on the ultrastructure of a typical fungal cell.
- 20. With the help of suitable diagrams give an account of antheridia in *Riccia*.
- 21. Describe the life cycle of Cycas.
- 22. Describe the structure of coralloid root and mention its importance.

 $(5 \times 4 = 20)$

Section D Answer any 2 (10 marks each)

- 23. Explain triphasic life cycle taking a suitable alga as an example.
- 24. Describe the life cycle of *Puccinia* with the help of suitable diagrams.
- 25. Give a detailed account on the sporophyte of Selaginella.
- 26. Give a brief account of symptoms and methods of spreading nut-fall of Areca nut. Also name the causative organism. What are the measures adopted to control the disease?

 $(10 \times 2 = 20)$