Reg. No ..... Name **20U155**

B. Sc DEGREE END SEMESTER EXAMINATION - OCT. 2020 : FEBRUARY 2021

SEMESTER 1 : COMPLEMENTARY BOTANY FOR B Sc ZOOLOGY

COURSE : **19U1CPBOT1 : CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY**

(Common for Regular - 2020 & Improvement / Supplementary 2019 Admission)

Time : Three Hours Max. Marks: 60

PART A

Answer All (1 mark each)

1. Name two algae from where agar is extracted.
2. Name the inner most part of primary axis in *Sargassum*.
3. Name a fungus which acts as research tool.
4. What is fruticose lichen?
5. Name an aquatic Bryophyte.
6. Name the type of stele found in *Selaginella* stem.
7. What are coralloid roots?
8. Name the pathogen responsible for nut-fall of areca nut.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Expalin the structure of antheridium of *Sargassum*.
10. Explain clamp connection and dolipore septum.
11. Differentiate between Zygomycetes and Trichomycetes.
12. What is Fruticose ascolichen? Give an example.
13. Comment on the photosynthetic filaments of *Riccia.*
14. Briefly describe heterospory giving an example.
15. Explain the morphology of megasporophyll of *Cycas.*
16. Name the organism responsible for nutfall of arecanut. How can it be controlled?

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

17. Describe the structure of female cone in Selaginella.
18. Describe the structure of apothecium of *Peziza* with the help of suitable diagrams.
19. Explain the scheme of fungal classification upto classes, proposed by Ainsworth.
20. Explain the alternation of generation in *Riccia*.
21. Explain the salient features of gymnosperms.
22. With suitable diagrams describe the structure of the megasporophyll in *Cycas.*

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

23. Write an essay on thallus organization and reproduction in *Cladophora*.
24. Describe the thallus structure and reproduction in *Phytophthora*.
25. Describe the thallus structure and sexual reproduction in *Riccia*.
26. Give an account on the causative organism, etiology, symptoms and methods of control of blight disease of paddy.

(10 x 2 = 20)