

Reg. No .....

Name .....

23U162

**B. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**

**SEMESTER 1 : COMPLEMENTARY BOTANY FOR B.Sc. ZOOLOGY**

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

*(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020/2019 Admissions)*

Time : Three Hours

Max. Marks: 60

**PART A**

**Answer All (1 mark each)**

1. Name a fungicide used for controlling disease in plants.
2. Name the algal class which exhibits triphasic life cycle.
3. Name the monomeric unit of Chitin.
4. Name a Pteridophyte with rhizophore.
5. How will you distinguish between the two types of rhizoids in *Riccia*?
6. Name the colourless, barrel shaped cell seen in *Nostoc*.
7. Give an example for foliose lichen.
8. Name the ovule bearing structure in *Cycas*.

**(1 x 8 = 8)**

**PART B**

**Answer any 6 (2 marks each)**

9. Distinguish homosporous and heterosporous.
10. Differentiate between vegetative and asexual reproduction in Algae.
11. Describe briefly the asexual reproduction in *Usnea*.
12. Explain amphigynous antheridium.
13. Write a note on the male cone of *Cycas*.
14. Explain plakea stage.
15. What are the symptoms of Paddy blight?
16. Explain thallus structure of *Riccia*.

**(2 x 6 = 12)**

**PART C**

**Answer any 4 (5 marks each)**

17. Mention the causative organism, symptoms and control measures of Leaf mosaic of Tapioca.
18. Explain the similarities and dissimilarities between Cyanophyceae and Bacteria.
19. Explain the internal structure of gametophyte of *Riccia* with the help of diagrams.
20. Draw the L.S of ovule of *Cycas* at the time of fertilization and name the parts.
21. With the help of labeled diagrams discuss and describe the rhizophore anatomy of *Selaginella* and discuss its morphological nature .
22. Comment on the ultrastructure of a typical fungal cell.

**(5 x 4 = 20)**

**PART D**

**Answer any 2 (10 marks each)**

23. Give an account on the causative organism, etiology, symptoms and methods of control of Blight disease of Paddy.
24. Give a detailed account on the sporophyte of *Selaginella*.
25. Describe the post fertilization changes, development and structure of sporophyte in *Riccia*.
26. Describe the reproduction and life cycle of cycas.

**(10 x 2 = 20)**