

B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER/NOVEMBER 2018**SEMESTER –1: BOTANY (COMPLEMENTARY COURSE FOR ZOOLOGY)****COURSE: 15U1CPBOT1 – CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY***(Common for Regular 2018 admission and improvement 2017/ supplementary 2017/2016/2015/2014 admission)*

Time: Three Hours

Max. Marks: 60

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

1. What is heterocyst?
2. Name an aquatic species of *Riccia*.
3. Name the type of nucleic acid present in TMV.
4. What is ligule?
5. What is chlorosis?
6. What is a mycobiont?
7. What is syncytium?
8. What is a plasmid?

(1 x 8 = 8)

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

9. Describe the structure of apothecium of *Peziza*.
10. Explain the structure of sporophyte of *Riccia*.
11. Write the ecological importance of lichens.
12. Explain the symptoms of nut fall of Arecanut.
13. Describe the tetrasporophyte of Polysiphonia.
14. What is a holdfast? What is its function?
15. What are differences between archaebacteria and eubacteria?
16. What is heterospory?
17. Write a note on transfusion tissue.
18. What is a capsid?

(2 x 6 = 12)

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

19. Describe the thallus structure of *Riccia*?
20. What are the distinguishing features of Phaeophyceae?
21. Describe the structure of the cell wall of a gram +ve bacteria.
22. Explain the economic importance of gymnosperms.
23. Discuss the morphology and anatomy of rhizophore of *Selaginella*.
24. Explain the structure of ovule in *Cycas*

(4 x 4 = 16)

PART D

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

25. Give an illustrated account on the life cycle of *Volvox*

OR

26. Describe the reproduction in *Selaginella*.

27. Describe the life cycle of *Puccinia*.

OR

28. Explain the different symptoms of plant diseases.

(12 x 2 = 24)
