

B.SC DEGREE END SEMESTER EXAMINATION OCTOBER 2016**SEMESTER – 1: BOTANY (COMPLEMENTARY COURSE)****COURSE: 15U1CPBOT1 –: CRYPTOGRAMS, GYMNOSPERMS AND PLANT PATHOLOGY**

Time: Three Hours

Max. Marks: 60

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

1. What are akinetes?
2. What are the reserve food materials in Phaeophyceae?
3. Name the algae that yield agar-agar.
4. What are episomes?
5. What are the different types of rhizoids seen in *Riccia*.
6. What are coralloid root?
7. What is ligule?
8. Name the causative organism of leaf mosaic disease of tapioca.

(1 x 8 = 8)

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

9. Comment on pleurilocular sporangia.
10. Why bryophytes are called amphibians of plant kingdom.
11. Suggest the control measures for nut fall of arecanut.
12. Explain binary fission in bacteria.
13. What are girdling leaf traces?
14. Mention any two uses of lichens.
15. Explain the morphology of microsporophyll of *Cycas*.
16. Explain the thallus structure of *Riccia*.
17. Differentiate between homosporous and heterosporous condition.
18. Draw a labeled diagram of apothecium of *Peziza*?

(2 x 6 = 12)

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

19. Explain the structure of Bacterial cell.
20. Illustrate the structure of *Cycas* ovule.
21. Explain the asexual reproduction in *Volvox*.
22. Comment on the beneficial uses of fungi.
23. Describe the structure of TMV.
24. Comment on the morphology of rhizophore in *Selaginella*.

(4 x 4 = 16)

PART D

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

25. Explain the life cycle of *Oedogonium*.

26. Describe the life cycle of *Puccinia*.

27. Give a detailed account on the sporophyte of *Selaginella*.

28. Explain in details the salient features of Gymnosperms; highlight the affinities of *Cycas* to Pteridophytes.

(12 x 2 = 24)
