

BSc DEGREE EXAMINATION - OCTOBER 2015

SEMESTER – 1, B. Sc. BOTANY (COMPLEMENTARY)

COURSE – U1CPBOT1: CRYPTOGRAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(Supplementary / Improvement)

Time: Three Hours

Max. Marks: 60

*(Draw diagrams wherever necessary)*I. Answer **all** questions briefly: Each question carries 1 mark.

1. What are Akinetes?
2. What are Gram positive bacteria?
3. Explain Bicelled spore of *Puccinia*
4. What is Tuberculated rhizoid?
5. Name a living fossil
6. What is a Ligule?
7. What is Transfusion tissue?
8. What is the Causative organism of Bacterial blight of Paddy?

(1 x 8 = 8)

II. Answer **any six** questions.

9. Describe briefly asexual reproduction in *Usnea*.
10. Explain the chemosynthesis in bacteria.
11. Differentiate unilocular and plurilocular sporangium.
12. Write on causative agent and symptoms of Nut fall of Areca nut.
13. Describe the internal structure of *Selaginella* stem.
14. Explain the anatomy of coralloid roots.
15. Discuss the role of heterocyst in nitrogen fixation.
16. Explain the ecological importance of lichens.

(2 x 6 = 12)

III. Answer **any four** questions.

17. Describe the structure of bacteriophage with labelled diagram.
18. Describe the sexual reproduction in *Oedogonium*.
19. Describe the apothecium of *Peziza* with suitable illustration.
20. Enumerate the economic importance of bacteria with special emphasis on industrial applications.

21. Describe the structure and importance of rhizophore in *Selaginella*.
22. With the help of a diagram, describe the female gametophyte of *Cycas*. (5 x 4 = 20)

IV. Answer **any two** questions.

23. Describe the life cycle of *Puccinia*.

OR

24. Explain alternation of generations with reference to the life cycle of *Polysiphonia*?

25. Describe the gametophytic and sporophytic generations in *Riccia*.

OR

26. Explain the anatomical and reproductive features of *Selaginella*. (10 x 2 = 20)
