

B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2019**SEMESTER – 1: BOTANY (COMPLEMENTARY COURSE FOR ZOOLOGY)****COURSE: 15U1CPBOT1: CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY***(Common for Improvement 2018/ Supplementary 2018/2017/2016 /2015 admission)*

Time: Three Hours

Max. Marks: 60

PART AAnswer **ALL** questions; each question carries **1 mark**.

1. What are the reserve food materials of Rhodophyceae?
2. What are the different types of Rhizoids of *Riccia*?
3. Name a species of *Cycas*.
4. What is a Bacteriophage?
5. What is a Pili?
6. What is a rhizomorph?
7. Which group is called as 'Vascular Cryptogams'?
8. What is heterophylly?

(1 x 8 = 8)

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

9. Describe the structure of teleutospores.
10. Why Bryophytes are called as 'amphibians of plant kingdom'?
11. Draw the structure of the apothecia of *Usnea*.
12. What are cap cells?
13. Explain heterospory and seed habit.
14. What are coralloid roots?
15. What is difference between plasmid and episome?
16. What is necrosis?
17. Write any two beneficial uses of virus.
18. What is alternation of generation?

(2 x 6 = 12)

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

19. Describe the economic importance of bryophytes.
20. What are the salient features of Chlorophyceae?
21. Discuss the morphology and anatomy of Rhizophore of *Selaginella*.
22. Explain the sexual reproduction of *Phytophthora*.
23. Describe the structure of TMV.
24. Explain the structure of *Cycas leaflet*

(4 x 4 = 16)

PART D

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

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

OR

26. Describe the causative organism, symptoms, disease cycle and control measures of Blight disease of Rice.

27. With illustrations, describe the life cycle of *Riccia*.

OR

28. Explain the salient features of Gymnosperms. What are the major differences with Pteridophytes?

(12 x 2 = 24)
