

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2018
(2017 Admission Improvement / Supplementary and 2015 & 2016 Admission
Supplementary)
SEMESTER I - COMPLEMENTARY COURSE (BOTANY)
BO1C01TB - CRYPTOGAMS AND GYMNOSPERMS
(For Zoology)

Time: Three Hours

Maximum Marks: 60

PART A**I. Answer all questions. Each question carries 1 mark**

1. Why is *Cycas* called sago palm?
2. Explain coenobium.
3. Comment on the economic importance of lichens.
4. Differentiate eucarpic and holocarpic mycelium.
5. What are capsomeres?

(5 x 1 =5)

PART B**II. Answer any five questions. Each question carries 2 marks**

6. Explain the structure of TMV.
7. Differentiate facultative parasites and obligate parasites.
8. What are transfusion tissues? Give its function.
9. Discuss the role of algae as fertilizer.
10. Describe the types of rhizoids in *Riccia*.
11. Explain the structure of uredospore and teleutospore.
12. Differentiate macrandrous and nannandrous species
13. Differentiate leptosporangia and eusporangia.

(5 x 2 =10)

PART C**III. Answer any five questions. Each question carries 5 marks**

14. Explain the different types of fungal tissues.
15. With the help of neat diagram explain the anatomy of *Cycas* rachis.
16. Explain the process of transduction.
17. Explain the post fertilization changes in *Polysiphonia*.
18. Describe the development of sporogonium in *Riccia*.
19. Describe with diagrams the two types of zoosporangia seen in *Ectocarpus*.
20. Describe the anatomy of *Selaginella* stem with neat diagrams.
21. Explain the development of daughter colonies in *Volvox*.

(5 x 5 =25)

PART D**IV. Answer any two questions. Each question carries 2 marks**

22. Describe in detail the lytic and lysogenic life cycles in bacteriophage.
23. Discuss heterospory and seed habit in *Selaginella*.
24. Explain the life cycle of *Puccinia*.
25. Discuss the development of male and female gametophytes in *Cycas*.

(2 x 10 =20)