

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023**(Regular/Improvement/Supplementary)****BOTANY: COMPLEMENTARY COURSE FOR ZOOLOGY****GBOT2C02T: CRYPTOGAMS, GYMNOSPERMS & PLANT PATHOLOGY****Time: 2 Hours****Maximum Marks: 60****SECTION A: Answer the following questions. Each carries *two* marks.****(Ceiling 20 Marks)**

1. Write a note on genetic material of viruses.
2. How does plasmid differ from episome?
3. What is Conjugation?
4. Give a brief account on TMV.
5. What are myxomycetes?
6. Comment on the different methods of vegetative reproduction in algae.
7. Name any two fungi used as food.
8. What are elaters?
9. Write a note on antheridium of *Selaginella*.
10. What is Nucellar beak?
11. Write any two inanimate causes of plant diseases.
12. Enumerate the important control measures of citrus canker.

SECTION B: Answer the following questions. Each carries *five* marks.**(Ceiling 30 Marks)**

13. Give an account of the multiplication of bacteriophages.
14. Describe classification of bacteria based on nutrition.
15. With the help of suitable diagrams explain the internal structure of foliose and fruticose lichens.
16. Explain the different stages of dikaryophase in *Puccinia*.
17. With the help of suitable diagrams, explain the structure of sex organs in *Riccia*.
18. With the help of diagram explain structure of male cone and microsporophyll of *Cycas*.
19. Name the pathogen, symptoms and control measures of Leaf mosaic of Tapioca.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. With the help of labelled diagram explain the life history of *Spirogyra*.
21. Write an essay on general characters, economic importance and alternation of generation of pteridophytes.

(1 x 10 = 10 Marks)