

D2BBT2302

Reg.No.....

Name:

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024**(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. Distinguish between lophotrichous and amphitrichous bacterium.
2. Name two heterocystous cyanobacteria.
3. What are gram positive bacteria?
4. Write short notes on siphonaceous thallus structure.
5. What are tetrasporophytes?
6. Distinguish between autoecious and heteroecious fungi.
7. What are fruiticose lichens? Give one example.
8. Comment on the structure of sporogonium of *Riccia*.
9. What is Heterospory? Name a heterosporous pteridophyte.
10. List out the economic importance of *Cycas*.
11. Enumerate any four symptoms of plant diseases.
12. Name pathogens of a) Leaf mosaic of tapioca b) Blast of paddy

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

13. With the help of neat diagram describe binary fission in bacteria.
14. Comment on haplontic life cycles in algae.
15. Write down the salient features of Ascomycotina.
16. Comment on the medicinal, nutritional and industrial uses of Lichens.
17. Write an account on the classification proposed by Proskauer.
18. With suitable diagram explain the structure of strobilus of *Selaginella*.
19. Name the pathogen, symptoms and control measures of Citrus canker.

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

20. Write an essay on the structure and reproduction of TMV.
21. Describe the sexual reproduction of *Cycas*.

(1 x 10 = 10 Marks)