

17U244

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Name

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2018

(Regular/Supplementary/Improvement)

(CUCBCSS – UG)

CC15U BOT2 C02 – CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(Complementary Course: Botany)

(2015 Admission onwards)

Time: Three Hours

Maximum: 64 Marks

(Draw diagrams only when specified)

Part A

Answer *all* questions. Each question carries 1 mark.

1. Name the causative organism of Citrus canker.
2. What are hormogonia?
3. Name a green algae having ribbon shaped chloroplast.
4. Name an Indian species of *Cycas*.
5. Name the reserve food material in Phaeophyceae.
6. What is an ascus?
7. Name an aquatic species of *Riccia*.
8. In type, a bacterial cell possess two or a few flagella at one end.
9. Litmus is obtained from lichen.
10. Basal hemispherical portion of a ligule is known as

(10 x 1 = 10 Marks)

Part B

Answer any *seven* questions. Each question carries 2 marks.

11. Give a brief account of *Cycas* male cone.
12. Briefly explain sporophyte of *Riccia*.
13. Explain the structure of TMV.
14. Explain the structure of an endospore.
15. Explain the symptoms of Leaf Mosaic of *Tapioca*.
16. What is a heterocyst? List its functions.
17. Write the control measures for Blast of Paddy?

18. List the applications of bacteria in medicine.
19. List any two characteristic features of Ascomycotina.
20. What is a prophage?

(7 x 2 = 14 Marks)

Part C

Answer any *six* questions. Each question carries 4 marks.

21. Explain internal anatomy of *Riccia* thallus T.S
22. Briefly describe the structure of a Bacterial cell.
23. Write a note on the economic importance of algae.
24. Explain conjugation in *Spirogyra*.
25. Briefly describe the structure of a bacteriophage.
26. Give an account on the reproduction in *Usnea*.
27. Explain the morphological characters of *Sargassum* thallus.
28. Enumerate the salient features of a *Cycas* ovule.

(6 x 4 = 24 Marks)

Part D

Answer any *two* questions. Each question carries 8 marks.

29. With a schematic representation, describe the life history of *Selaginella*.
30. With labeled diagrams explain the reproduction of *Polysiphonia*.
31. Briefly describe the life cycle of a *heteroecious fungus*.

(2 x 8 = 16 Marks)
