

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCBCSS – UG)

(Complementary Course: Botany)

CC15U BOT2 C02 – Cryptogams, Gymnosperms and Plant Pathology

(2015 Admission)

Time: Three Hours

Maximum: 64 Marks

Draw diagrams only when specified

Part A (Answer all questions)

1. Name the causative organism of Citrus canker.
2. What is mycelium?
3. Name of one species of *Riccia*.
4. Which plants are known as "amphibians" of the Plant Kingdom?
5. What is gametophyte?
6. Sphere shaped bacteria is called
7. The group of plants, which produces seeds but lacks flower is called
8. Hormogones found in filamentous blue green algae are concerned with
9. Fruiting body of *Usnea* is
10. The red coloured pigment present in Rhodophyceae is (10 x 1 = 10 Marks)

Part B (Answer / explain any seven questions)

11. Describe the structure of *Selaginella* stem.
12. Describe the cell structure of *Spirogyra*?
13. Give a brief account of the megasporophyll of *Cycas*.
14. Describe the structure of TMV? □
15. What are the symptoms of the Leaf mosaic of Tapioca?
16. Write a note on the general morphological features of *Selaginella*.
17. Define monotrichous bacteria with an example.
18. Describe the rhizoids in *Riccia*.
19. Describe the tetrasporophyte in *Polysiphonia*.
20. Write a note on the rhizophore. (7 x 2 = 14 Marks)

Part C (Answer any six of the following)

21. Describe the structure of a bacterium.
22. Write a note on the Blast of Paddy?
23. Describe the receptacle of *Sargassum*.
24. Draw a neat labeled diagram of Bacteriophage.
25. Describe lateral conjugation in *Spirogyra*.
26. Explain heterospory and seed habit in *Selaginella*.
27. Give an account on the reproduction in *Nostoc*.
28. Describe the economic importance of *Usnea*. (6 x 4 = 24 Marks)

Part D (Any two of the following)

- 29. With the help of labelled diagrams, describe the life cycle of *Puccinia*.
- 30. What is alternation of generations? With the aid of schematic diagram describe the life history of *Cycas*.
- 31. Describe the methods of reproduction in Bacteria.

(8 x 2 = 16 Marks)
