

16U227

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Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY-2017

(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)

1. Bacteria without Flagellum are called _____
2. Which is the genetic material of TMV? _____
3. Name the pathogen which causes Citrus canker.
4. Reserve food material of Rhodophyceae is _____
5. The type of sexual reproduction seen in bacteria is _____
6. Define Phycobiont.
7. Name an aquatic species of Riccia
8. Give the name of symbiotic algae seen in coralloid roots of Cycas.
9. An outgrowth from the base of the leaves in Selaginella is called _____
10. Fruiting body of Usnea is _____

(10 x 1 = 10 marks)

PART – B (Answer / Explain any Seven of the following)

11. Write a note on fungal nutrition?
12. What are prions?
13. Name the primary host and alternate host of Puccinia graminis.
14. Enumerate the ecological importance of Lichens.
15. Differentiate soredia and isidia.
16. Write a note on algal pigments.
17. Describe the Rhizophore of Selaginella.
18. Name the causative organism and symptoms of leaf mosaic disease of tapioca.
19. Describe two types of rhizoids in Riccia.
20. Give a brief account of the megasporophyll of Cycas.

(7 x 2 = 14 marks)

PART – C (Answer any Six of the following)

21. Describe structure of male cone of Cycas.
22. Explain the salient features of Archaeobacteria.
23. Describe the thallus and reproduction in Nostoc. Mention its economic importance.
24. Describe conjugation methods in Spirogyra.

25. Differentiate lytic and lysogenic cycles in bacteriophages.
26. List out the different methods of plant disease control.
27. What is meant by heteroecious fungus? Name the four spore stages seen in the life cycle of Puccinia.
28. Describe the receptacle of Sargassum.

(6 x 4 = 24 marks)

PART – D (Answer any two of the following)

29. Write an essay on the thallus structure and life cycle of Polysiphonia.
30. With the help of labeled diagrams describe the life history of Riccia. Write a short note on alternation of generation.
31. What is heterospory? What is its biological importance in seed habit? Draw suitable diagrams with respect to Selaginella.

(8 x 2 = 16 marks)

(10 x 1 = 10 marks)

PART – B (Answer \ Explain any seven of the following)

11. Write a note on fungal nutrition?
12. What are prions?
13. Name the primary host and alternate host of Puccinia graminis.
14. Enumerate the ecological importance of Lichens.
15. Differentiate soredia and isidia.
16. Write a note on algal pigments.
17. Describe the Rhizosphere of Selaginella.
18. Name the causative organism and symptoms of leaf mosaic disease of tobacco.
19. Describe two types of rhizoids in Riccia.
20. Give a brief account of the megasporophyll of Cycas.

(7 x 2 = 14 marks)

PART – C (Answer any six of the following)

21. Describe structure of male cone of Cycas.
22. Explain the salient features of Archaeobacteria.
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