

D 43230

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2018

(CUCBCSS-UG)

Complementary Course

BOT 2C 02 – CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

Time : Three Hours

Maximum : 64 Marks

Section A

Answer all questions.

Each question carries 1 mark.

Answer in a word :

1. The subunit of protein coat in viruses.
2. A symbiotic bacterium.
3. Fusion of two similar gametes.
4. The alga commonly called pond silk.
5. The component of cell wall in fungi.
6. Any one spore for asexual reproduction in fungi.
7. The female reproductive structure in *Riccia*.
8. The leaf producing sporangium in pteridophytes.
9. The cyanobacterium found in coralloid roots.
10. The pathogen of Citrus canker.

(10 × 1 = 10 marks)

Section B (Short Answers)

Answer any seven questions.

Each question carries 2 marks.

11. Write a brief note on binary fission in bacteria.
12. What are heterocysts? What is its role?
13. Distinguish between scalariform and lateral conjugation.
14. Write an account of the pigments and reserve food in brown algae.
15. What is apothecium? Give an example.
16. Classify lichens based on external morphology.

Turn over

17. Why bryophytes are regarded as plant amphibians?
18. Write an account of the leaves in *Selaginella*.
19. Write an account of vegetative reproduction in *Cycas*.
20. What are the symptoms of blast of paddy?

(7 × 2 = 14 marks)

Section C (Short Essays)

Answer any six questions.

Each question carries 4 marks.

21. Describe the structure of TMV.
22. Write about the stages in the life-cycle of *Puccinia* in wheat plant.
23. Explain the thallus structure of *Sargassum*.
24. Write an account of the importance of lichens.
25. Describe the methods of vegetative multiplication in bryophytes.
26. Write the important features of the division Basidiomycotina.
27. Write notes on the importance of bacteria in agriculture and industry.
28. Describe the structure of strobilus in *Selaginella*.

(6 × 4 = 24 marks)

Section D

Answer any two questions.

Each question carries 8 marks.

29. Describe the structure of thallus and sex organs of *Polysiphonia*.
30. Describe the reproductive structures in *Cycas*.
31. Describe briefly the life cycle of *Riccia*.

(2 × 8 = 16 marks)