E 8354 (Pages : 2) Reg. No.....

Name.....

B.Sc. DEGREE (CBCS) EXAMINATION, JANUARY/FEBRUARY 2018

First Semester

Complementary Course—Botany

CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(Common to Model II—Food Microbiology, Model II—Medical Microbiology)

(2017 Admissions)

Time : Three Hours Maximum Marks : 60

Part A

Answer any **ten** *questions.*
Each carries 1 *mark.*

1. Comment on rhizoids.
2. What are cap cells ?
3. What is circinate vernation ?
4. What is cystocarp ?
5. Mention any two xerophytic characters of Cycas leaflet.
6. What is stroma ?
7. What is nanandrium ?
8. What is soredia ?
9. What are rhizophores ?
10. How can we control blight disease of paddy ?
11. Bryophytes are known as the 'amphibians of plant kingdom'. Why ?
12. Differentiate gametophyte from sporophyte.

(10 × 1 = 10)

Part B

Answer any **six** *questions.*
Each carries 5 *marks.*

13. "Silaginella shows a tendency towards seed habit". Justify the statement.
14. Explain the economic and ecological importance of lichens.
15. Explain the structure of apotheccium with the help of a labelled diagram.

Turn over

16. Explain the anatomy of coralloid root in cycas and mention its significance.
17. Write notes on different types of conjugation found in spirogyra.
18. Name the causative organism symptoms and control measures of mitfall of Arecanut.
19. What are the characteristic features of Basidiomycotine ?
20. Compare the thallus structures of Oedogonium and Cladophora.
21. Describe the structure of sex organs of Riccia.

(6 × 5 = 30)

Part C

Answer any **two** *questions.*
Each carries 10 *marks.*

22. Briefly explain the life cycle of Puccinia.
23. Describe the sexual reproduction and post fertilization changes in Polysiphonia.
24. Explain the sexual reproduction in Cycas.
25. How are plant diseases classified ? What are the various symptoms of plant diseases ?

(2 × 10 = 20)