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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

First Semester

Complementary Course—Botany

CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(For B.Sc. Zoology—Model I)

[2013—2016 Admissions]

Time : Three Hours

Maximum Marks : 60

Part A

Answer all questions.

Each question carries 1 mark.

1. What is a heterocyst ?
2. List the binomial of any *two* edible fungi.
3. What is a crozier ?
4. What are resurrection plants ?
5. List the two types of rhizoids seen in *Riccia*.
6. Name any Indian species of *Cycas*.
7. What is a coralloid root ?
8. Mention the etiology of leaf mosaic of tapioca.

(8 × 1 = 8)

Part B

*Answer any **six** questions.*

Each question carries 2 marks.

9. Explain the asexual reproduction in *Volvox*.
10. List morphological features of *Cladophora* thallus.
11. Differentiate between ascocarp and basidiocarp.

Turn over





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12. Point out the thallus structure of *Phytophthora*.
13. List any four diagnostic features of *Usnea* thallus.
14. Point out the salient features of *Selaginella* sporophyte.
15. List out any *two* identifying features of Gymnosperms.
16. Mention the xerophytic adaptations of *Cycas* leaflet T. S.
17. Draw a schematic representation of the classification of plant diseases with examples.
18. Mention the control measures of Bacterial blight of rice.

(6 × 2 = 12)

Part C

Answer any **four** questions.

Each question carries 4 marks.

19. Briefly explain the internal anatomy of *Riccia* thallus.
20. Write a brief account on *Peziza* thallus.
21. With a labelled diagram explain the cell structure in *Oedogonium*.
22. Compare unilocular and plurilocular sporangia in *Ectocarpus*.
23. Explain the structure of a *Cycas* microsporophyll.
24. Write a note on etiology, symptoms and control measures of Nut fall of Arecanut.

(4 × 4 = 16)

Part D

Answer any **two** questions.

Each question carries 12 marks.

25. Give an account of economic importance of algae.
26. Briefly explain postfertilization changes in *Polysiphonia*.
27. Describe various type of spores produced in the life cycle of *Puccinia*.
28. Explain the reproduction in *Selaginella*.

(2 × 12 = 24)

