

E 2455

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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2015

First Semester

Complementary Course—Botany

CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(For B.Sc. Zoology Model I)

[2013 Admission onwards]

Time : Three Hours

Maximum : 60 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. What is a Synzoospore ?
2. Name any two species of Cycas.
3. What is diploxyly ?
4. What is Oogamy ?
5. Name the source of Litmus.
6. Name the frusting body of Peziza.
7. Differentiate between scales and rhizoids.
8. What is meant by circinate veneration ?

(8 × 1 = 8)

Part B

Answer any six questions.

Each question carries 2 marks.

9. What are the functions of heterocyst ?
10. Describe the structure of Ligule.
11. Mention the important features of Archaeobacteria.
12. List out any four uses of Cyanobacteria.
13. Where do you find transfusion tissue ? What is the function of it ?
14. Enlist the pigments of Phaeophyceae.

Turn over

15. Differentiate between macrandrous and nannandrous species of Oedogonium.
16. What are the functions of Rhizophore ?
17. Mention the xerophytic adaptations of Cycas leaflet.
18. What are the symptoms of Bacterial blight of Rice ?

(6 × 2 = 12)

Part C

*Answer any four questions.
Each question carries 4 marks.*

19. Volvox is considered as a colony than an individual algal member. Justify.
20. What are the primitive characters of Riccia Sporophyte ?
21. Explain the structure of Aecidia of Puccinia.
22. Describe the structure of a Bacteriophage.
23. List out the economic importance of Lichens.
24. Explain the structure of Nostoc filament.

(4 × 4 = 16)

Part D

*Answer any two questions.
Each question carries 12 marks.*

25. Explain the life cycle of Polysiphonia.
26. Explain the role of bacteria in the field of agriculture.
27. Name the pathogen, symptoms and control measures of Nulfall of Arecanut.
28. Point out the similarities and dissimilarities between Pteridophytes and Gymnosperms.

(2 × 12 = 24)