

TB141030

Reg. No:

Name:

B Sc. DEGREE(C.B.C.S.S) EXAMINATION, NOVEMBER 2014

B Sc BOTANY – FIRST SEMESTER

COMPLEMENTARY COURSE FOR B.Sc. ZOOLOGY

BOT1CGPP – CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY

Time: Three Hours

Maximum: 60 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

1. What is the name of the apogeotropic roots produced in *Cycas*?
2. What is capsid?
3. Give the name of the organism that causes nut fall in Arecanut
4. What is anisogamy?
5. Cells directly responsible for fixing Nitrogen in *Nostoc*
6. Name an alga that possess a single parietal and reticulate chloroplast
7. Name the group of plants that produce spores and embryo, but lacks seeds and vasculature
8. What is sporophyll?

(8 x 1 = 8 marks)

Part B

Answer any **six** questions.

Each question carries 2 marks.

9. What are the symptoms of tapioca mosaic disease?
10. Which are the different morphological forms of bacteria?
11. Describe the organization of plant body in *Volvox*.
12. What are the benefits an algal partner derives from its association in the lichens?
13. Why do we consider bryophytes as the amphibians among plants?
14. Describe the structure of a teleutospore.
15. Comment on the gametophytes of Pteridophytes
16. Describe the process of asexual reproduction in *Ectocarpus*.
17. Describe the symptoms of bacterial blight of Rice.

(6 x 2 = 12 marks)

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Part C

Answer any **four** questions.

Each question carries 4 marks.

18. Describe the thallus organization in *Polysiphonia*.
 19. Drawing a suitable diagram, describe the important features in the anatomy of *Cycas* leaflet.
 20. Differentiate between nannandrous and macrandrous forms of *Oedogonium*.
 21. Describe the heteroecious life cycle exhibited by *Puccinia*.
 22. Comment on the morphological nature of the rhizophore in *Selaginella*.
 23. Drawing a labelled diagram, describe the structure of a mature archegonium in *Riccia*.
- (4 x 4 = 16 marks)

Part D

Answer any **two** questions.

Each question carries 12 marks.

24. How are plant diseases classified based on the causes and symptoms?
 25. Describe briefly the process of sexual reproduction and development of seeds in *Cycas*
 26. Describe the general characters of Pteridophytes.
 27. Write an essay on the economic importance of Algae.
- (2 x 12 = 24 marks)