

Reg. No..... Name.....

15U137

BSc DEGREE EXAMINATION - OCTOBER 2015

SEMESTER - 1: BOTANY (COMPLEMENTARY COURSE)

COURSE: 15U1CPBOT1: CRYPTOGRAMS, GYMNOSPERMS AND PLANT PATHOLOGY

Time: 3 hours

Total Marks: 60

Part A

I. Answer **ALL** questions; each question carries **ONE** mark.

1. What are mesosomes?
2. What are polar nodules?
3. Name a coprophylloous fungus
4. What are capcells?
5. Name the causative organism of nut fall of arecanut.
6. What are lichens?
7. Give the binomial of the aquatic species of *Riccia*.
8. Who discovered virus?

(1 x 8 = 8)

Part B

II. Answer **ANY SIX** questions; each question carries **TWO** marks.

9. Comment on the morphology of rhizophore in *Selaginella*.
10. Draw a neat labeled diagram of the apothecium of *Peziza*.
11. Explain the measures to control the leaf mosaic disease of Tapioca.
12. Describe the structure of sporophyte in *Riccia*
13. What are the difference between plasmids and episomes?
14. State any two usefulness of Virus.
15. Explain the morphology of megasporophyll of *Cycas*.
16. Comment on plakea stage.
17. Differentiate between hormogonia and akinete.
18. What are soredia?

(2 x 6 = 12)

Part C

III. Answer **ANY FOUR** questions; each question carries **FOUR** marks.

19. Explain the structure of TMV.
20. Illustrate the structure of *Cycas* leaflet.

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21. Explain the internal structure of thallus of *Usnea*.

22. Comment on the heterospory and seed habit.

23. Describe the thallus structure of *Nostoc*.

24. Briefly describe bacterial chemosynthesis.

(4 x 4 = 16)

Part D

IV. Answer **ANY TWO** questions; each question carries **TWELVE** marks.

25. Explain the life cycle of *Phytophthora*.

26. Describe the thallus structure and sexual reproduction in *Riccia*.

27. Quoting suitable examples, explain in details the economic importance of bacteria.

28. Give a detailed account on the sporophyte of *Selaginella*.

SACREHEARTCOLLEGE,(AUTONOMOUS)THEVARA

(12 x 2 = 24)