Reg. No…….. Name……

B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER/NOVEMBER 2017

SEMESTER **–1: BOTANY (COMPLEMENTARY COURSE FOR ZOOLOGY)**

COURSE: **15U1CPBOT1: CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY**

(Common for Regular 2017 admission and Supplementary/Improvement 2016 & 2015 admission)

Time: Three Hours Max. Marks: 60

PART A

I. Answer ***all*** questions briefly: Each question carries 1 mark.

1. What are endospores?
2. Name the negatively geotropic root in *Cycas*.
3. What is ligule?
4. What is coenobium?
5. Name an aquatic species of *Riccia*.
6. What is plasmid?
7. What is the reserve food material in Rhodophyceae?
8. What is the role of phycobiont in lichens? (1 x 8 = 8)

PART B

II. Answer ***any six*** questions.

9. How cap cells are formed in *Oedogonium*?
10. Give an account of various pigments present in algae.
11. Describe the structure of apothecium in *Usnea.*
12. Explain the chemosynthesis in bacteria.
13. Differentiate between chlamydospores and conidia.
14. What is the source of Agar- Agar? Mention its uses.
15. Describe the origin and structure of rhizophore in *Selaginella*.
16. Describe the internal structure of *Riccia* thallus.
17. What is meant by alternation of generation? Add a brief note on diplohaplontic lifecycle.
18. Describe the stele in *Selaginella*. (2 x 6 = 12)

PART C

III. Answer ***any four*** questions.

19. Describe the fruiting body of *Peziza* with a suitable diagram.
20. Explain the causal organism, symptoms and control measures of Bacterial blight of Rice.
21. Describe the asexual reproduction in *Nostoc*.
22. Briefly describe the sexual reproduction in nannandrous species of *Oedogonium*.
23. Explain the internal structure of leaflet in *Cycas.*
24. Describe the structure of bacteriophage with a labelled diagram. (5 x 4 = 20)

PART D

IV. Answer ***any two*** questions.

25. Explain the alternation of generation with reference to the life cycle of *Polysiphonia*?

OR

26. Write an essay on the beneficial role of bacteria in agriculture, industry and medicine.

27. What is heteroecious fungus? Describe the life cycle of *Puccinia* with suitable diagrams?

OR

27. Describe the sexual reproduction in *Cycas*. (10 x 2 = 20)

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