18P129 (Pages: 2) Name: …….

Reg. No……...

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCSS-PG)

CC18P BO1 C02 – MYCOLOGY AND LICHENOLOGY, MICROBIOLOGY AND PLANT PATHOLOGY

(Botany)

(2018 Admission Regular)

Time: Three Hours Maximum: 36 Weightage

I. Answer ***all*** questions. Each question carries 1 weightage.

1. Differentiate between oidia and arthrospores.
2. What is heterothallism?
3. Enumerate the nutritional types in fungi.
4. Write notes on archaebacteria.
5. What is meant by Plectenchyma?
6. Mention the characteristic features of myxomycetes.
7. Distinguish Prions from Viroids.
8. Define Pasteurization.
9. How cyanobacteria are classified?
10. Enumerate the food preservation methods.
11. What are Aflatoxins? Name the organisms producing aflatoxin.
12. Write notes on seed borne diseases.
13. Enlist the biotic causes of plant disease.
14. Describe Koch's Postulates.

(14 x 1 = 14 Weightage)

II. Answer any ***seven*** questions. Each question carries 2 weightage.

15. What is bioremediation? Describe the various methods of purification of potable water.
16. Explain the role of microbes as *biofertilizers* and *biocontrol agents.*
17. What are vaccines? How are they prepared?
18. Describe the structure of TMV.
19. Explain briefly different types of symptom found in plant diseases manifestation.
20. What are the symptoms of Tikka disease of ground nut? Write its causal organism and disease cycle?
21. What are endophytes? What is its importance?

22. Write a critical note on the phylogeny of fungi.
23. Give an account of different type of fruiting bodies found in Ascomycetes.
24. Write an account on fungal decomposition of organic matter.

(7 x 2 = 14 Weightage)

III. Answer any ***two*** questions. Each question carries 4 weightage.

25. Describe plant disease management.
26. Elucidate different types of mycorrhizae and its significance in agriculture.
27. Write an account of different group of lichen based on thallus. Explain the vegetative propagules and economical importance of lichens.
28. Explain genetic recombination in bacteria.

(2 x 4 = 8 Weightage)

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