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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, January 2019
First Degree Programme under CBCSS
BOTANY
Core Course
BO 1341 : Microbiology, Phycology, Mycology, Lichenology and Plant Pathology
(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

I. Very short answer, answer **all** questions. 1 word to maximum of **2** sentences.

1) Name a Gram negative bacterium.

2) Give an example for a retrovirus.

3) The cell wall of bacteria is made up of _____

4) What are hypnospores ?

5) Define coenobium.

6) Name a diatom.

7) Give an example for a unicellular fungus.

8) Define dikaryon.

9) What is peridium ?

10) Name the causal organism of mosaic disease of tapioca. **(10x1 =10 Marks)**

II. Short answers, **not** to exceed **one** paragraph, answer **any eight** questions.

11) Write a short note on mycoplasma.

12) What is rhizosphere ? What is its importance ?

13) What are virions ?

P.T.O.

14) Differentiate isogamy and anisogamy.

15) What is neuromotor apparatus ?

16) Write a brief note on diplobiontic life cycle.

17) List any four characteristics of Cyanophyceae.

18) What are algal blooms ?

19) Describe the mycelial structure of *Rhizopus*.

20) Write a brief note on the economic importance of Saccharomyces cerevisiae.

21) What are Phytoalexins ?

22) List any four symptoms of root wilt of coconut. **(8×2=16 Marks)**

III. Short essay, **not** to exceed **120** words, Answer **any six** of the following.

23) Classify the bacteria based on their morphology.

24) Write a brief note on the microbes involved in nitrogen cycle.

25) Give an account on the thallus structure of *Pinularia*.

26) Briefly explain the different types of asexual spores in algae.

27) Give an account on the thallus structure of Voucheria.

28) Draw a labeled diagram of the L.S. of apothecium of Peziza.

29) What are the general characters of lichen ?

30) Write a brief account on the economic importance of lichen.

31) What are the symptoms of Citrus canker ? What is the causal organism of Citrus canker ? **(6×4 =24 Marks)**

IV. Long essay, answer **any two** of the following.

32) With a suitable diagram, explain the life cycle of *Polysiphonia*. Add notes on its post fertilization changes.

33) Write an essay on the economic importance of bacteria with suitable examples.

34) Outline the classification of fungi proposed by Anisworth.

35) Describe the symptoms, causal organism and control measures of Blast disease of paddy. **(2×15 =30 Marks)**