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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, December 2017
(First Degree Examination under CBCSS)
BOTANY
BO1341 : Microbiology, Phycology, Mycology, Lichenology and Plant Pathology
(2014 Admission Onwards)

Time : 3 Hours Max. Marks : 80

I. Write a short note on the following. **All** questions are **compulsory**.

1) Prions.
2) Retrovirus.
3) Necrosis.
4) Carrageenin.
5) *E.coli*.
6) Conidiospore.
7) Cap cells.
8) Teleutospores.
9) Biocontrol agents.
10) Mycobiont. **(10×1 = 10 Marks)**

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II. Answer briefly, **any eight** of the following :

11) Explain the diversity of chloroplasts in algae.
12) Write a short note on Fruticose lichen.
13) Symptoms of citrus canker.
14) Write a short note on mycoplasma.
15) Explain the modes of transmission of viruses.
16) Short note on structure of mycelium, during somatic phase of *Rhizopus*.
17) Write a short note on sexual reproduction in Chlorophyceae.

18) Write a note on disease development cycle.

19) Economic importance of lichens.

20) Write a note on *Peziza* apothecium.

21) Explain haplobiontic life cycle.

22) Write a short note on conceptacles in *Sargassum*. **(8×2 = 16 Marks**

III. Answer **any six** of the following :

23) Describe the post fertilization changes in *Polysiphonia*.

24) Describe sexual reproduction in *Oedogonium*.

25) Explain the thallus structure and reproduction in Volvox.

26) Explain the methods of reproduction in bacteria.

27) With the help of labeled diagrams only, explain the life cycle of Puccinia.

28) Explain the classification of diseases on different basis.

29) Write a short note on different vegetative structures on lichens.

30) Explain the fruiting body of *Agaricus*.

31) Give a brief account of different fungicides. **(6×4 = 24 Mark**

IV. Write an essay on **any two** of the following :

32) Give an account of bacterial culture techniques.

33) Describe the classification of algae by FE Fritsch.

34) Explain the life history and economic importance of Saccharomyces (yeast).

35) Explain the life cycle of Chara with reference to its growth and reproduction with suitable diagrams. **(2×15 = 30 Mark**

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