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Name.....

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Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Botany

**BO 01 CT 02—MYCOLOGY, LICHENOLOGY, MICROBIOLOGY AND PLANT
PATHOLOGY**

Time: Three Hours

Maximum : 36 Weightage

I. Answer the questions very briefly :

- 1 What is iatrogenic disease ?
- 2 What are necrotrophs ?
- 3 Name the fungus involved in cheese production.
- 4 What is a beneign phage ?
- 5 What is abortive transduction ?
- 6 Why honey is a good preservative ?
- 7 What is a demicyclic fungus ?
- 8 What are the methods of transmission of plant diseases ?
- 9 What is a rhizine ?
- 10 What are parenthosomes ?
- 11 What are biofertilizers ?
- 12 What are the abiotic causes of plant diseases ?
- 13 What are extracellular enzymes ?
- 14 How cyanobacteria are classified ?

(14 × 1 = 14 weightage)

II. Answer any *seven* questions in not more than 100 words each :

- 15 What are vaccines ? How they are prepared ?
- 16 Write a note on the reproductive bodies of lichens.
- 17 Explain the role of bacteria in genetic studies.
- 18 Explain the symptoms and name the causal organisms of three fungal diseases.
- 19 What are angiosperm parasites ? How they are transmitted ?

Turn over

- 20 Describe the ultra structure of a fungal cell.
- 21 Write a note on the fruiting bodies of basidiomycota.
- 22 Draw and label the parts of Tobacco Mosaic Virus.
- 23 Describe mycorrhiza.
- 24 Write a note on economic importance of lichens.

(7 × 2 = 14 weight)

III. Answer any *two* questions in 300 words each :

- 25 How plant diseases can be managed in a sustainable way ?
- 26 Write a general account on plant and animal viruses and explain their infection and replication.
27. Write an essay on basidiomycota with special emphasis on basidiocarp.
28. Write an account on systematics ,thallus structure and ecological significance of lichens.

(2 × 4 = 8 weight)