



11125

B.Sc. I Semester Degree Examination, November/December 2016
BOTANY

**Paper No. – 1.1 : Diversity of Microbes and Nonvascular Plants –
Microbiology, Viruses Mycoplasma, Bacteria, Cyanobacteria and Algae**

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) *Part – I is compulsory.*
2) *Answer any ten question in Part – II.*
3) *Labelled diagram enhance the value of answer.*

PART – I

- I. Answer the following : (2×8=16)
- 1) What is palmella stage ?
 - 2) What are amyllum starch ?
 - 3) What is diatomaceous earth ? Give example.
 - 4) Write any two difference between transformation and transduction.
 - 5) What are akinetes ? Write an example.
 - 6) What is Aplanospore ? Give example.
 - 7) What are vectors ? Give example.
 - 8) What are androspore ?

PART – II

- II. Answer **any four** of the following : (4×4=16)
- 9) Explain Thallus structure of oscillatoria.
 - 10) Describe reproduction in cosmerium.
 - 11) Explain contribution of Leuwenhock.
 - 12) Describe TMV with neat labelled diagram.
 - 13) Explain cell-division process in Oedogonium.
 - 14) Explain carposporophyte in polysiphonia.

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III. Answer any six of the following :

(6×8=48)

- 15) Describe the Mycoplasma cell structure and sandal spike disease.
- 16) Explain the Thallus of scytonema and write the reasons for false branching.
- 17) Describe the structure of Gloeotrichia and add a note on economic importance of BGA.
- 18) Describe the sex organs of chara with neat labelled diagram.
- 19) Explain the Fritsch system of classification of Algae.
- 20) Explain viroids and write the diseases and symptoms caused by viroids.
- 21) Describe cell structures of Diatoms and write a note on cell division.
- 22) Explain the role of bacteria in industries and agriculture.