

I Semester B.Sc. Examination, November/December 2014  
(Semester Scheme) (OS)  
(Prior to 2011–12)  
BOTANY (Paper – I)

Introduction to Microbiology, Viruses, Immunology, Bacteria,  
Cyanobacteria and Phycology

Time : 3 Hours

Max. Marks : 60

- Instructions :** 1) Answer *all* Parts.  
2) Draw diagrams *wherever* necessary.

PART – A

Answer **any six** (6) of the following.

(6×2=12)

**BMSCW**

- 1) Expand ELISA.
- 2) Name two characteristic pigments of cyanophyceae.
- 3) What are aplanospores ?
- 4) Mention any two control measures of viral diseases.
- 5) Mention the contributions of Lewenhock to the field of Microbiology.
- 6) Define 'prions' . .
- 7) What is immunology ?
- 8) What are akinetes ?

PART – B

B. Write notes on **any six** (6) of the following.

(6×4=24)

- 9) Cell division in oedogonium.
- 10) Role of bacteria in medicine and industry.
- 11) Plurilocular sporangia.



- 12) Cystocarp of polysiphonia.
- 13) Leaf curl of papaya.
- 14) Structure of Anabaena.
- 15) Branching in scytonema.
- 16) Mycoplasma.

PART – C

C. Give detailed account of **any three (3)** of the following.

(3×8=24)

- 17) Give an account of Economic importance of algae.
  - 18) Asexual reproduction in Volvox.
  - 19) Sex organ's of chara.
  - 20) Characteristic features of Viruses.
  - 21) Genetic recombination in Bacteria.
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