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I Semester B.Sc. Degree Examination, August - 2021

BOTANY

Introduction to Microbiology, Viruses, Bacteria, Cyanobacteria & Psychology  
(CBCS Scheme 2018 Onwards Repeaters)

Paper : I

Time : 3 Hours

Maximum Marks : 70

*Instructions to Candidates :*

- 1) Answer All Parts.
- 2) Draw diagrams wherever necessary.

## PART - A

I. Define/Explain any "TEN" of the following in 2 or 3 sentences: (10×2=20)

- 1) Mention the pathogen and any two symptoms of Papaya leaf curl.
- 2) Expand ELISA.
- 3) Define any two properties of Mycoplasma.
- 4) Draw a neat labelled diagram of Anabaena.
- 5) Mention the postulates of Robert Koch.
- 6) What are heterocyst?
- 7) List out any two characteristic features of cyanobacteria.
- 8) Name the sex organs of Chara.
- 9) What are Cap cells?
- 10) Mention any four living characters of Viruses.
- 11) Mention the components of bacterial cell wall.
- 12) What is heterotrichous plant body? Give an example.

## PART - B

II. Write critical notes on any "Four" of the following: (4×5=20)

- 13) Sandal spike disease.
- 14) Thallus structure of Sargassum.
- 15) Yellow mosaic disease of beans.

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- 16) Spirulina.
- 17) Bioremediation.
- 18) Role of bacteria in medicine and industry.

**PART - C**

II. Give Comprehensive account on any "Three" of the following: (3×10=30)

- 19) Explain cystocarp and add a note on tetrasporophyte in Polysiphonia.
- 20) Describe the thallus structure and a sexual reproduction in Chlamydomonas.
- 21) Explain any two methods of Genetic recombination in bacteria.
- 22) Describe the structure of T<sub>4</sub> bacteriophage & explain lytic cycle.
- 23) Give an account on:
  - a) Anabaena.
  - b) Scytonema.

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