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

**BOTANY**

**Microbial Diversity and Psychology**

**(CBCS Scheme 2020-21 Onwards Freshers)**

**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) Name any two pigments found in cyanobacteria.
- 2) What are cap cells?
- 3) Define Viroids.
- 4) Draw a neat labelled diagram of Chlamydomonas.
- 5) Mention any two symptoms of TMV disease.
- 6) What are phototrophs? Give example.
- 7) Mention any two uses of SCP.
- 8) What is Polyhedron?
- 9) Mention the importance of Ti - plasmid.
- 10) Name the pathogen causing citrus canker and mention any two symptoms.
- 11) Mention two isolation techniques of soil microbes.
- 12) What are Cryptostomata?

**[P.T.O.]**



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**PART - B**

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

- 13) Contributions of Louis Pasteur.
- 14) Globule of Chara.
- 15) Economic importance of Cyanobacteria.
- 16) Tomato Leaf Curl disease.
- 17) Endospore of bacteria.
- 18) Branching in Scytonema.

**PART - C**

**II.** Give Comprehensive account on any “**THREE**” of the following: **(3×10=30)**

- 19) What is Coenobium? Describe the a sexual reproduction in Volvox.
  - 20) Describe the thallus structure and cystocarp of Polysiphonia.
  - 21) Explain the structure and multiplication of T<sub>4</sub> bacteriophage.
  - 22) Describe the process of sexual reproduction in Oedogonium.
  - 23) Ultra structure of a bacterial cell.
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