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| UNIQUE PAPER CODE | :32161101 |
| NAME OF THE PAPER | :Microbiology and Phycology |
| NAME OF THE COURSE | :B.Sc. (Hons) Botany(LOCF) |
| SEMESTER | :I |
| DEPT CODE | :216 |
| C_NO. | :C 1 |
| Time | :4 hrs. (3 hrs for writing + 1 hr for downloading and uploading) |

Instructions for Candidates

1. Write your University Roll number, Name of the Course, Semester, Paper Title, Unique Paper Code, Name of the College, Email ID, Mobile number on first page of the answer sheet.
2. Attempt any four questions.
3. All questions carry equal marks (18.75 Marks).
4. **Supplement your answers with diagrams whenever necessary.**

- Q1. Differentiate between viroids and prions. Describe the structure of T even bacteriophage. Explain viral replication. 18.75
- Q2. Differentiate between haplontic and diplontic life cycle in Algae? Explain the triphasic life cycle studied by you in the class with the help of example? 18.75
- Q3. With suitable diagrams, compare the morphology of *Volvox*, *Chlamydomonas* and *Nostoc*. Discuss asexual reproduction in these three genera. 18.75
- Q4. With the help of suitable diagrams compare the thallus of *Oedogonium* and *Chara* bearing sex organs. Comment upon evolutionary significance of *Chara*. 18.75
- Q5. Describe various types of bacteria on the basis of their nutrition. Discuss their role in agriculture and industry. 18.75
- Q6. What are kelps? Discuss their economic importance. Explain the life cycle of *Fucus* with the help of suitable diagrams. 18.75



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