I Semester B.Sc. Examination, November/December 2017 (CBCS) (2014 - 2015 & Onwards) (F + R)

Introduction to Microbiology, Viruses, Bacteria, Cyanobacteria and

Time: 3 Hours

Max. Marks: 70

Instructions: 1) Answerall questions.

2) Draw diagrams and write examples wherever necessary.

## PART-A

A. Define/Explain any ten of the following in two or three sentences. 1) Mention the contributions of Anton-Van Leeuwen-hoek. (10×2=20)

2) What are androspores?

3) What are hormogonia?

4) Mention the pathogen and any two symptoms of Papaya leaf curl.

5) Mention any two uses of cyanobacteria.

6) What is Nannandrous filament? Give an example.

Differentiate between isogamy and oogamy.

8) Write any four properties of Mycoplasma.

9) Mention any two types of chemotropic bacteria.

10) Name the predominant pigments and reserve food material in rhodophyceae.

11) Mention the types of bacteria based on their shape.

12) Mention any two types of vegetative reproduction in cyanobacteria.

## PART-B

B. Write critical notes on any four of the following.

(4×5=20)

13) Structure of chlamydomonas.

14) Serial dilution technique.



- 15) Thallus structure of sargassum.
- 16) Biogas production.
- 17) Toxic Algae.
- 18) Role of Bacteria in Industry.

## PART-C

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C. Give a comprehensive account of any three of the following. (3x10=31)

- 19) Thallus structure and sex organs of polysiphonia.
- 20) Bacterial conjugation and Applermation
- 21) Economic importance of Algae.
- 22) Ultrastructure of Bacterial cell.
- 23) Living and nonliving properties of viruses and structure of TMV.