

ST JOSEPH’S UNIVERSITY, BENGALURU -27

SEMESTER EXAMINATION: OCTOBER 2023

**(Examination conducted in November /December 2023)**

I Semester B. Sc Botany: BO123

 **Microbiology, Phycology, Mycology and Plant pathology**

 (For current batch students only)

**Time: 2 Hours Max Marks: 60**

**This paper contains ONE printed page and THREE parts**

**PART-A**

**Answer any TEN of the following in two or three sentences 10X2=20**

1. Contributions of Alexander Fleming
2. *Anabaena*
3. Endospore
4. Transduction
5. TMV
6. Pasteurization
7. Plectenchyma
8. Acid Fast staining
9. Enriched Media
10. Pili
11. Algal bloom
12. Sandal spike disease

**PART-B**

 Write short notes on any FIVE of the following 5X6=30

1. Differences between Gram-Positive and Gram-Negative Bacterial cell wall
2. Differences between Light and Electron Microscopes
3. Classification of Bacteria based on Flagellation
4. Asexual reproduction in *Rhizopus*
5. Draw and explain the structure of pennate diatoms
6. Draw and explain the structure of sex organs in *Chara*
7. Explain the Club root disease of Crucifers

**PART-C**

 Write a detailed account of any ONE of the following 10X1=10

1. Explain reproduction in *Peziza* with a neat labelled diagram of Apothecium
2. Explain the vegetative structure and reproduction in *Sargassum*