

Research Entrance Test for admission to PhD program

Department of Microbiology

St. Xavier's College (autonomous)

Kolkata

Multiple Choice Questions

Total Marks: 100 (50 questions; 2 marks each)

Qualifying Marks: 50

Time: 2 hours

Syllabus of RET

- Biological macromolecules
- Biophysical techniques, microscopy, spectroscopy, thermodynamics
- Cell biology and cell signaling, Cellular structure and function
- Enzymes, microbial metabolism, photosynthesis
- Molecular biology (DNA replication, transformation, conjugation transduction, mutation and repair)
- Environmental microbiology
- Recombinant DNA technology
- Industrial microbiology
- Medical Microbiology and Immunology
- Agricultural Microbiology