

Research Entrance Test for admission to PhD program in Department of Microbiology, St. Xavier's College (autonomous), Kolkata

Multiple Choice Questions (100 marks : 50 questions; 2 marks for correct answer)

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
- Immunology and cancer biology
- Industrial microbiology