ST JOSEPH'S UNIVERSITY- ADMISSIONS 2023-24

ENTRANCE EXAMINATION FOR M.Sc. BIOTECHNOLOGY

The entrance examination will have two sections:

Section I: 30 MCQs - 30 marks - 40 minutes

(There will be negative marks for incorrect responses) **Section 2**: One analytical question - 15 marks - 20 minutes.

Total: 45 marks, 60 minutes duration

Students will need at least 55% in each section to be eligible for the interview.

SYLLABUS FOR ENTRANCE EXAMINATION:

Biochemistry

Protein structures, enzyme function, Membrane structure and function

Cell Biology

Cell division, Cellular transport, Cellular respiration and photosynthesis

Genetics

Principles of Mendelian Genetics, chromosomal aberrations and human disease

Immunology

Antibody structure and function, basics of innate and adaptive immunity: phagocytosis, B cell and T cell responses

Molecular Biology

DNA structure, DNA replication, transcription and translation

Basic techniques in Genetic Engineering: vectors, restriction digestion, ligation and transformation