

Paper I- General on Research methodology- common to all of Molecular Medicine

(Multiple choice questions and short answers)

1. Introductory biochemistry, cell biology and molecular biology, molecular genetics and immunology including laboratory methods and biostatistics.
2. Medical ethics governing human material utilization for research

Paper II- Topics specific to each unit within Molecular medicine

(Multiple choice questions and short answers)

**Cell Biology:** Basic cell biology including Protein sorting into major organelles, Protein secretion, Vesicular transport, Signaling pathways, Cell cycle.

**Molecular Oncology:** Tumor biology including, Hallmarks of cancer, carcinogenesis, tumor suppressor genes, oncogenes and tumor progression. Breast cancer: clinical characteristics, subtypes, treatment, predictive and prognostic markers