

QP Code:102103

Reg.No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD)
October 2018**

Paper II – Molecular Biology, Immunology & Cancer

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay: (20)

1. Describe in detail the types and procedures of gene therapy. Add a note on advantages and disadvantages of different vectors used

Short essays: (8x10=80)

2. Protein folding and targeting.
3. Southern blotting.
4. Micro array analysis.
5. Genomic library.
6. Apoptosis.
7. Epigenetics of prokaryotes and eukaryotes.
8. Explain cell cycle. Describe briefly about growth factors and cytokines
9. Stem cell biology and applications
