

QP Code:102103

Reg. No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD)
October 2019**

Paper II – Molecular Biology, Immunology & Cancer

Time: 3 hrs

Max marks:100

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

Essay: (20)

1. Describe the process of transcription in eukaryotes. Add a note on post transcriptional modifications

Short essays: (8x10=80)

2. Programmed cell death.
3. Applications of recombinant DNA technology
4. Structural organisation of human chromosomal DNA
5. Bioinformatics
6. Molecular methods in newborn screening
7. Regulation of eukaryotic gene expression
8. DNA repair mechanism and diseases associated with defective repair
9. Tumour markers in the screening and diagnosis of breast cancer
