

**QP Code:102103**

**Reg.No.:.....**

**PG Degree Examinations in Biochemistry (MD) - May 2017**

**Paper II – Molecular Biology, Immunology & Cancer**

**Time: 3 hrs**

**Max marks:100**

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

**Essays:**

**(20)**

1. Define mutations. Discuss the different types of mutations and its effects on gene expression.

**Short essays:**

**(8x10=80)**

2. Mitochondrial DNA and its role in inherited diseases.
3. Explain the types of immunity.
4. Restriction endonucleases- nomenclature, function and applications.
5. Mechanism and significance of protein sorting.
6. Restriction fragment length polymorphism and its applications.
7. Tumour markers in the screening and diagnosis of breast cancer.
8. Explain the features of the genetic code.
9. DNA repair mechanisms and disorders associated with it.

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