

[LL 1017]

OCTOBER 2017

Sub. Code: 9130

**M.Sc. MOLECULAR VIROLOGY EXAMS  
SECOND YEAR  
PAPER III – RECENT ADVANCES IN MOLECULAR VIROLOGY**

*Q.P. Code : 289130*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Elaborate on gene library. What is the essential difference between a genomic library and a cDNA library? List the major advantages/limitations on the use of each.
2. Enumerate the advanced molecular techniques. Write in detail about sequencing, methodology and its applications.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Anti-retro viral chemotherapy.
2. Britten and Davidson's model in eukaryotes.
3. DNA vaccines.
4. Name any four proteins involved in the DNA replication in eukaryotes.
5. RAPD.
6. X-ray diffraction technique.
7. Nif Operon.
8. Phylogenetic analysis.
9. Cytokine.
10. Okazaki fragments.

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