

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 1022]

**OCTOBER 2022**

**Sub. Code: 9130**

**M.Sc. MOLECULAR VIROLOGY  
SECOND YEAR (From 2009-2010 & 2020-2021 onwards)  
PAPER III – RECENT ADVANCES IN MOLECULAR VIROLOGY**

*Q.P. Code : 289130*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Discuss in detail the classes of antiviral drugs with mechanism of action. Add a note on drug resistance.
2. Write in detail about Phylogenetic analysis and tree construction. Add a note on foot printing.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Cytokines.
2. Vaccine delivery system.
3. Hybridization techniques.
4. Antisense RNA.
5. FASTA.
6. Data mining tools.
7. COVID vaccine trials.
8. RT PCR.
9. Sequence alignment.
10. Flow cytometry.

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