

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 9130

**M.Sc. MOLECULAR VIROLOGY
SECOND YEAR (From 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 about the recent advances in antiviral vaccines. Add a note on future challenges in development of vaccines against viral diseases.
2. Write in detail about the basic methodology and application of sequencing in molecular virology. Add a note on ethical issues.

II. Write Short Notes on:

(10x6 = 60)

1. Nif Operon.
2. Interferons.
3. Antiviral therapy against Herpes virus infection.
4. Principle and application of nanotechnology in molecular virology.
5. MLST.
6. Hybridization techniques.
7. Si RNA Ribozymes.
8. Film array.
9. LCR.
10. gDNA Library.
