

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

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 9127

**M.Sc. MOLECULAR VIROLOGY
FIRST YEAR (Candidates admitted from 2020-2021 onwards)
PAPER III – BASIC AND APPLIED VIRAL GENETICS AND ENTOMOLOGY
*Q.P. Code : 289127***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on: (2 x 20 = 40)

1. Enumerate the differences between RNA and DNA viruses. Describe in detail about RNA viral multiplication.
2. What are prions? Describe the pathogenic mechanisms and diseases caused by them.

II. Write Short Notes on: (10x6 = 60)

1. tRNA.
2. Introns and exons.
3. Lac Operon.
4. Post translational modification.
5. Mutations.
6. E coli K12 strain.
7. Application of recombination DNA technology.
8. Public health importance of ticks and mites.
9. Differences between the species of mosquitos.
10. Life cycle of culex mosquito and the diseases caused by them.
