

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 9127

**M.Sc. MOLECULAR VIROLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER III – BASIC AND APPLIED VIRAL GENETICS & ENTOMOLOGY**

Q.P. Code: 289127

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Write in detail about general strategies of viral replication. Write a note on replication of Double stranded RNA virus.
2. Classification of Mosquito. Write in detail about the life cycle of Mosquito and its role in transmission of Dengue, Malaria and Chikungunya.

II. Write Short Notes on:

(10x6 = 60)

1. Mutation.
2. mRNA.
3. trp Operon.
4. RNA polymerases.
5. Watson and Crick model.
6. Replication of adeno associated viruses.
7. Japanese Encephalitis and difficulties encountered in control of JE.
8. Epidemiology of Zika virus.
9. Public health importance of Fleas and Mites.
10. Biology, Ecology and Life history of Ticks with reference to KFD.
