

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 9127

M.Sc. MOLECULAR VIROLOGY
FIRST YEAR (Candidates admitted from 2009-2010 & 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. What are prions? Write in detail about the pathogenic mechanisms and diseases caused by them.
2. Describe the mechanism of transcription in prokaryotes and how they differ from eukaryotic transcription mechanism?

II. Write Short Notes on:

(10x6 = 60)

1. Mutation.
2. DNA replication.
3. Histones.
4. Restriction endonucleases.
5. Cell cycle.
6. E.coli K 12 strain.
7. Prevention and control of Japanese encephalitis.
8. Role of mosquitoes in the transmission of dengue and malaria.
9. Public health importance of ticks and control measures.
10. New world and Old world Sand flies and their importance.
