

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

[AHS 0321]

MARCH 2021

Sub. Code: 9127

(OCTOBER 2020 EXAM SESSION)

M.Sc. MOLECULAR VIROLOGY

FIRST YEAR (From 2009-2010 onwards)

PAPER III – BASIC AND APPLIED VIRAL GENETICS

Q.P. Code : 289127

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Give a detailed account of viral replication in retroviruses.
2. Explain post transcriptional RNA processing in eukaryotes.

II. Write Short Notes on:

(10x6 = 60)

1. Steps involved in transcription initiation.
2. Structure of Chromatin.
3. Lagging Strand.
4. Types of Plasmids.
5. DNA Polymerase enzyme.
6. Role of Nucleases.
7. Define mutation and explain various types of mutation.
8. Scrapie.
9. Catalytic RNA.
10. Introns and exons.
