

[LL 1017]

OCTOBER 2017

Sub. Code: 9127

**M.Sc. MOLECULAR VIROLOGY EXAMS
FIRST YEAR
PAPER III – BASIC AND APPLIED VIRAL GENETICS**

Q.P. Code : 289127

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe the mechanism of transcription in prokaryotes. What are the major differences from the mechanism in eukaryotes?
2. Give a detailed account of prion proteins and their role in causing infections.

II. Write notes on:

(10 x 6 = 60)

1. Satellite DNA
2. Role of helicase enzyme.
3. Reverse transcriptase.
4. Ribosomal RNA.
5. Ribozyme.
6. Virus adsorption into host cell-mechanism involved.
7. Define mutation and explain any four types of mutation.
8. ECoR.
9. Splicing.
10. Insertion elements.
