

[LD 1013]

OCTOBER 2013

Sub. Code: 9127

M.Sc MOLECULAR VIROLOGY EXAMINATION

FIRST YEAR

(for Candidates admitted from 2009-2010 onwards)

PAPER III – BASIC AND APPLIED VIRAL GENETICS

Q.P. Code : 289127

Time : 3 hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on :

(2X20=40)

1. Describe Viral oncogenes. Discuss mechanisms of viral oncogenesis.
2. What are prions? Explain their structure and significance.

II. Writes notes on:

(10X6=60)

1. Catabolic repression
2. Evolutionary significance of histoproteins
3. Write a short notes on:
 - a) Spliceosomes
 - b) Polyadenylation
4. Nucleic acid based classification of viruses
5. Elaborate features of DNA polymerase
6. Explain transcription initiation in prokaryotes
7. Describe constituents of nucleosome and chromatin structures
8. Explain the replication of Polio and influenza viruses
9. Procession of primary transcripts in to mature mRNA
10. Replication mechanism of S V 40 virus.
