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

## [AHS 0122]

## JANUARY 2022 (OCTOBER 2021 EXAM SESSION)

Sub. Code: 9130

## M.Sc. MOLECULAR VIROLOGY SECOND YEAR (From 2009-2010 onwards) PAPER III – RECENT ADVANCES IN MOLECULAR VIROLOGY Q.P. Code : 289130

Time:	Three hours	Answer ALL Questions	Maximum: 100 Marks
I.	Elaborate notes on:		$(2 \ge 20 = 40)$
	List the cancers caused by viruses. Write in detail about the mutations in Hepatitis B Virus, pathogenesis of HBV infection adding a note on its prevention.		
2.	Enumerate the advanced molecular techniques in virology. Discuss in detail the CRISPR editing technology.		
II.	Write Short Notes	on:	(10x6 = 60)
1.	HCV genotyping.		
2.	Epitope prediction.		
3.	mRNA vaccines.		
4.	Search engine.		
5.	Transgenic vectors.		
6.	Types of Public hea	lth Surveillance.	
7	GIDNA		

- 7. siRNA.
- 8. Xenodiagnosis.
- 9. Microfluidic diffusional sizing.
- 10. Data mining tools.

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