

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

[AHS 0321]

MARCH 2021

Sub. Code: 9128

(OCTOBER 2020 EXAM SESSION)

M.Sc. MOLECULAR VIROLOGY

SECOND YEAR (From 2009-2010 onwards)

PAPER I – DIAGNOSTIC VIROLOGY

Q.P. Code : 289128

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Enumerate the viruses causing SARS. Describe in detail the structure, pathogenesis & laboratory diagnosis of SARS – CoV – 2 infection in humans. Add a note on the vaccines for the same under trial.
2. Name the viruses causing Hepatitis in humans. Write in detail the structure, pathogenesis, laboratory diagnosis & prevention of Hepatitis B viral infection.

II. Write Short Notes on:

(10x6 = 60)

1. Laboratory Diagnosis of cytomegalovirus infection
2. Antibody dependent immune enhancement in Dengue.
3. Influenza vaccine.
4. Strategies adopted for polio eradication.
5. Fifth generation ELISA in HIV infection.
6. Laboratory diagnosis of Rabies in dogs & humans.
7. NIPAH virus.
8. Suckling mice .
9. Loop-mediated isothermal amplification Assay.
10. Phases of vaccine trials.
