

MASTER COPY.
[Signature]

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (MEDICAL VIROLOGY) EXAMINATION - JANUARY 2021
(RESCHEDULED)

Date: 12th January 2021

Time: 9.00 a.m. – 12.00 noon

PAPER I

Answer **all five (05)** questions.

Answer each question in a separate book.

1. Surveillance of infectious diseases is an important component of the health system of a country.

Describe the viral disease surveillance programmes in Sri Lanka, including utilization of data. (100 marks)

2.

- 2.1. Briefly describe the pathogenesis of SARS-CoV-2 virus infection (COVID-19). (30 marks)

- 2.2. Outline the reasons why SARS-CoV-2 virus caused a pandemic. (20 marks)

- 2.3. Critically evaluate the different types of vaccines/vaccine candidates for COVID-19 and comment on the progress of vaccines in the front line. (50 marks)

3.

- 3.1. Describe the aetiology and epidemiology of acute encephalitis syndrome (AES). (40 marks)

- 3.2. Discuss the laboratory diagnosis of acute viral encephalitis with special emphasis on recent advances. (60 marks)

4. The United Nations (UN) has stated that antimicrobial resistance (AMR) could cause 10 million deaths due to drug resistant infections each year, by 2050.

Discuss the causes for the rapid emergence and spread of AMR as a global problem and outline the strategies required to prevent and control AMR.

(100 marks)

5. Discuss the use of antibody testing in patients, for the diagnosis of diseases. (100 marks)