

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (MEDICAL VIROLOGY) EXAMINATION
JANUARY 2009

Date : 19th January 2009

Time : 1.00 p.m.-4.00 p.m.

PAPER I

Answer all five (05) questions.

Answer each question in a separate book.

1.
 - 1.1. List the steps in viral replication. (10 marks)
 - 1.2. List the antiviral agents or groups of antiviral agents that are effective against Influenza viruses. Hepatitis B virus and Herpes simplex virus. (20 marks)
 - 1.3. Discuss the mode of action for each of the antiviral agents or group of antiviral agents mentioned above. (70 marks)

2. Oncogenic viruses are increasingly being recognized.
 - 2.1. List and briefly describe four (4) human oncogenic viruses. (25 marks)
 - 2.2. Explain how infections caused by the four viruses listed above (2.1.) are diagnosed. (45 marks)
 - 2.3. Describe the strategies available to protect the patients from these infections. (30 marks)

3. Discuss the epidemiology, pathogenesis, laboratory diagnosis and control of Japanese encephalitis. (100 marks)

4. Discuss how you would exclude a bacterial aetiological agent in a patient presenting with fever and rash of one week duration. (100 marks)

5. A patient presents with an infection (or infections) which could be due to an underlying immune deficiency. Discuss how you would **immunologically** evaluate such a patient depending on the clinical presentation. (100 marks)