

Master Copy

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (MEDICAL MICROBIOLOGY) EXAMINATION – JANUARY 2015

Date :- 16th January 2015

Time :- 1.00 p.m. – 4.00 p.m.

PAPER I

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

Answer each question in a separate book.

1. Your district general hospital has several endoscopy units onsite with different procedures for decontamination. You have therefore been asked to review and standardize endoscopy decontamination services. Give recommendations based on best practice guidelines. (100 marks)

2. The hospital where you are working has a suspected outbreak of multi-resistant *Klebsiella pneumoniae* (only sensitive to colistin) involving four patients on a 30 bed general surgical ward. Propose a plan to both investigate and combat this problem. Indicate which control measures should have the highest priority. (100 marks)

3. Discuss the environmental/epidemiological factors and biological characteristics of viruses which promote the relevant diseases to achieve pandemic potential. (100 marks)

4. The class Zygomycetes is divided into two orders. Discuss the features that differentiate these two orders with regard to the diseases they cause, their pathogenesis and laboratory diagnosis. (100 marks)

5.
 - 5.1. What are the immunological functions of the spleen? (30 marks)
 - 5.2. List the infectious agents to which patients are susceptible following splenectomy. (10 marks)
 - 5.3. Discuss the strategies for management you would adopt for a patient who has undergone or is due to undergo splenectomy, giving reasons. (60 marks)