

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (MEDICAL MICROBIOLOGY) EXAMINATION – NOVEMBER 2019

Date:- 6th November 2019

Time:- 9.30 a.m. – 12.30 p.m.

PAPER I

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

Answer each question in a separate book.

1. Recurrent bacterial skin abscesses with varying severity are one of the frequent causes for referrals to the consultant microbiologist.

Discuss the aetiology, diagnosis, treatment and preventive aspects of bacterial skin abscesses including the recent advances. (100 marks)

2. A concern about the increasing rate of *Clostridium difficile* infection in your hospital was raised at the hospital management committee meeting. On reviewing the cases you become aware that all the patients had received multiple courses of antibiotics in the months preceding the onset of their diarrhoea. You believe that developing an antimicrobial stewardship programme for your hospital would improve the quality of patient care.

Write an essay on the development of an antimicrobial stewardship programme in your hospital that would serve as a presentation to the hospital management committee. (100 marks)

3.

- 3.1. Outline the opportunistic infections in allogeneic haematopoietic stem cell transplant recipients relating to timing and sources of infection.

(30 marks)

- 3.2. Discuss the strategies adopted to prevent viral infections in hematopoietic stem cell transplant recipients, including the role of the laboratory.

(70 marks)

4. List the causative agent/s and describe the epidemiology, clinical manifestations, laboratory diagnosis and antifungal treatment of phaeohyphomycosis.

(100 marks)

5.

- 5.1. Describe the immunopathogenesis of sepsis.

(60 marks)

- 5.2. Discuss the potential therapeutic targets based on the immunopathogenesis.

(40 marks)