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02/11/2016

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (MEDICAL MICROBIOLOGY) EXAMINATION – NOVEMBER 2016

Date :- 2nd November 2016

Time :- 9.00 a.m. - 12.00noon

PAPER I

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

Answer each question in a separate book.

1. Outline the causative agents and describe the pathogenesis of septic arthritis including prosthetic joint infections, in adults.
Discuss the management of prosthetic joint infections. (100 marks)
2. Write an essay on outpatient parenteral antibiotic therapy (OPAT). Include in your essay the reasons for having an OPAT service in your community, the different ways in which you could set this service up, factors you would need to consider before suggesting a patient for it and any potential disadvantages of such a service. (100 marks)
3. Describe pre-transplant screening for viruses and post-transplant management of potential viral infections in renal transplantation. (100 marks)
4. Describe the clinical manifestations, pathogenesis, essential laboratory investigations with expected results and antifungal management of infections caused by *Cryptococcus neoformans*. (100 marks)
5. Vaccines are among the most effective interventions in modern medicine.
 - 5.1. Enumerate the types of vaccines, giving one example for each.
Discuss the immune responses to each type. (75 marks)
 - 5.2. Outline how immune responses to vaccines can be enhanced. (25 marks)