

Ollscoil na hÉireann, Gaillimh

National University of Ireland, Galway

**Fourth Medical Year: 2002**  
**Bacteriology**

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Time allowed: 3 Hours

Answer five questions

1. Write short notes on 3 of the following
  - a) Prevention of vertical transmission of Hepatitis B virus
  - b) Adverse effects associated with use of antimicrobial agents
  - c) Prevention of infection with *Neisseriae meningitidis*
  - d) Diagnosis and treatment of *Chlamydia trachomatis* infection
2. Write an essay on infection related to **venous** catheters (central and peripheral). You may wish to address the following aspects, the role of venous catheters in health care, the clinical presentation, associated microorganisms, and the prevention, diagnosis and management of venous catheter related infection.
3. Write short notes on three of the following
  - a) Heat sterilisation of medical instruments
  - b) African sleeping sickness
  - c) Toxoplasmosis
  - d) Laboratory diagnosis of tuberculosis
4. Write an essay on urinary tract infection (UTI). You may wish to address the following aspects, the frequency of UTI, predisposing factors, organisms frequently associated with UTI, clinical presentation, prevention, diagnosis and management.
5. Write short notes on three of the following
  - a) Tetanus
  - b) Aspergillosis
  - c) Infection associated with *Campylobacter* spp.
  - d) Rubella virus
6. A 70 year old man presents with left lower lobe pneumonia. What causative micro-organisms might be causing his illness? Describe the diagnostic tests that would be appropriate and the treatment that would be used.