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UNIVERSITY OF RUHUNA, FACULTY OF MEDICINE, GALLE
Third Examination for Medical Degrees (Part 1)
MEDICAL MICROBIOLOGY - Paper 11 - Essay

Monday 17th June 2002

10 am to 12 noon

Answer all FOUR questions

Answer parts A and B in separate answer books

PART A

- 1.1 Explain the terms sterilisation, decontamination and antisepsis. (30 marks)
 - 1.2 Briefly describe appropriate methods for sterilisation/disinfection of
 - 1.2.1 a bedpan. (10 marks)
 - 1.2.2 skin, before doing a lumbar puncture. (10 marks)
 - 1.2.3 a vaginal speculum. (10 marks)
 - 1.2.4 accidental blood spillage (10 marks)
 - 1.3 Discuss the advantages and disadvantages of using a ward steriliser ("boiler"). (30 marks)
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2. Write briefly on:
 - 2.1 Toxin mediated *Staphylococcus aureus* infections (35 marks)
 - 2.2 Pityriasis versicolor (35 marks)
 - 2.3 Laboratory diagnosis of suspected rabies virus infection in a human (30 marks)

PART B

3. An elderly woman is admitted to a surgical ward with pain, swelling, marked redness of the right lower limb and fever with chills. On examination a wound was seen on the ankle.
 - 3.1 What is the probable diagnosis? (10 marks)
 - 3.2 List the likely organisms that can cause this clinical presentation. (15 marks)
 - 3.3 Describe the collection and transport of appropriate specimens for a microbiological diagnosis. (50 marks)
 - 3.4 Describe the treatment of this clinical presentation. (25 marks)
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4. Write briefly on
 - 4.1 Aminoglycosides. (30 marks)
 - 4.2 Immune prophylaxis of hepatitis B. (35 marks)
 - 4.3 Respiratory syncytial virus (RSV) infections. (35 marks)