

B.Sc. CRITICAL CARE TECHNOLOGY
(New Syllabus 2014-2015)

SECOND YEAR

PAPER II – CLINICAL MICROBIOLOGY

Q.P. Code: 801217

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Define sterilisation. Describe the principle and the materials sterilised using the plasma steriliser. Add a note on the precautions to be undertaken while using this equipment.
2. Enumerate the sources and modes of transmission of hospital acquired infection. Write a note on prevention of hospital infection including the role of the health care worker.
3. List the causative agent, source of infection and mode of transmission of amoebiasis. Describe in detail the prevention of this disease

II. Write notes on:

(8 x 5 = 40)

1. Method of collection of blood for culture.
2. Steps of hand washing.
3. Prevention of HIV infection.
4. Classification of biomedical waste.
5. Describe the schedule for diphtheria, pertussis and tetanus vaccination to be followed for children.
6. Sources of infection.
7. List the PPE used in an ICU; Mention to what category of medical waste, used PPE belong and how they are discarded?
8. Categories of medical waste.

III. Short answers on:

(10 x 3 = 30)

1. Define opportunistic pathogens with two common examples.
2. Define bacteraemia and septicaemia.
3. Name two viral diseases that are often spread through sexual contact.
4. Name two common causes of urinary tract infections.
5. Expand RNTCP.
6. What is dengue haemorrhagic fever?
7. How are scalpel blades, endoscopes and normal saline sterilized?
8. Define vaccine and immunization.
9. Mention two drugs used for first line treatment of tuberculosis.
10. Gradation of water quality based on presumptive coliform count of water.