

[LQ 0220]

FEBRUARY 2020

Sub. Code: 1217

B.Sc. CRITICAL CARE TECHNOLOGY

(New Syllabus 2014-2015 & 2015-2016)

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 biomedical waste; what are the categories of biomedical waste? How will you segregate biomedical waste at source? Add a note on the importance of biomedical waste management.
2. Enumerate the causative agents for malaria. Describe the pathogenicity and laboratory diagnosis of *Plasmodium falciparum*.
3. What are the modes of transmission of HIV? Discuss laboratory diagnosis of HIV infection.

II. Write notes on:

(8 x 5 = 40)

1. Discuss the importance of infection control in Intensive care unit.
2. Personal protective equipments.
3. Post exposure prophylaxis of rabies.
4. Antibiotic drug resistance.
5. Indicators of sterilization.
6. Laboratory diagnosis of leptospirosis.
7. National immunization schedule.
8. Autoclave.

III. Short answers on:

(10 x 3 = 30)

1. Dengue serotypes.
2. Universal precautions.
3. Bacterial growth curve.
4. Define sepsis.
5. Define nosocomial Infection.
6. Mention the toxins produced by *clostridium tetani*.
7. Define significant bacteriuria.
8. Mention any two of differential staining methods used for methods for the demonstration of bacteria.
9. List the samples collected for pulmonary tuberculosis.
10. Define quality control.
