

[LN 1018]

OCTOBER 2018

Sub. Code: 1703

**M.Sc. CRITICAL CARE TECHNOLOGY EXAMS
FIRST YEAR
PAPER III – APPLIED PATHOLOGY AND MICROBIOLOGY RELATED
TO CRITICAL CARE**

Q.P. Code: 281703

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

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. What are the common types of poisoning? Discuss the care of these patients in an ICU setting. Add a note on the general methods of treatment in a case of poisoning.

II. Write notes on: **(10 x 6 = 60)**

1. Explain in detail about Universal precautions.
2. Define carrier state. Discuss its clinical significance.
3. Name the causative agent of Tuberculosis. Discuss why it is endemic in our country and list the preventive measures undertaken.
4. List the causative agents of Malaria. Add notes on its clinical features and laboratory diagnosis.
5. What is differential staining? Mention any two of differential staining methods used for methods for the demonstration of bacteria.
6. Define Anemia. What are the causes, clinical features and complications of anemia in ICU patients?
7. Define Pneumonia? Mention the types of Pneumonia and explain its pathogenesis.
8. What is Hepatic Coma? Explain the precipitating factors and its pathogenesis.
9. What is stress response? Explain the Hypothalamic Pituitary – Adrenal (HPA)system and Sympathomedullary Pathway (SAM).
10. Name the parasites which will cause amoebiasis? Explain about intestinal amoebiasis.

[LP 1019]

OCTOBER 2019

Sub. Code:1703

**M.Sc. CRITICAL CARE TECHNOLOGY EXAMS
FIRST YEAR
PAPER III – APPLIED PATHOLOGY AND MICROBIOLOGY RELATED
TO CRITICAL CARE**

Q.P. Code: 281703

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Define sterilization and disinfection; classify various agents used for sterilization; explain about moist heat sterilization. Add a note on fumigation of ICU.
2. What is Pneumonia? Mention about types of Pneumonia and pathogenesis. Explain about hospital acquired Pneumonia in terms of its predisposing factors and clinical features. Add a note on the prevention of hospital acquired Pneumonia.

II. Write notes on: **(10 x 6 = 60)**

1. Describe about Koch's postulates.
2. What are different types of culture media? Write a note on transport media.
3. What is HIV? Mention the modes of transmission of HIV infection. Add a note on Universal precautions.
4. List the causative of fever with headache. Add note on clinical features and Laboratory diagnosis of Dengue.
5. Mention the different staining techniques used in Bacteriology. Explain about differential staining technique.
6. Define acute renal failure. What are the causes, clinical features and complications of Acute Renal Failure in ICU patients?
7. Define Neutropenia. What are the causes, clinical features and complications of Neutropenia?
8. Name the common poisoning in India. Add note on clinical features and complications of OPC Poisoning.
9. List the different methods of biomedical waste treatment. Describe in detail about any two methods of biomedical waste treatment.
10. Name the parasites which will cause Diarrhea? Explain about amoebiasis.
