

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1703

**M.Sc. CRITICAL CARE TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2017-2018 onwards - Paper III)

(Candidates admitted from 2020-2021 onwards - Paper IV)

**PAPER III & IV – APPLIED PATHOLOGY AND MICROBIOLOGY RELATED
TO CRITICAL CARE
Q.P. Code : 281703**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What is Nosocomial Infections? List out the sources and spread of infections? Discuss in detail about methods of prevention of these infections?
2. Define Shock. Discuss in detail about its types and pathogenesis of septic shock.

II. Write Short Notes on:

(10x6 = 60)

1. What are the types of Hypersensitivity reactions and give two examples in each type.
2. Discuss in detail about Immunization schedule for Children.
3. What is Ghon's focus? Mention various complication of Tuberculosis?
4. What is Pneumonia? Mention about types of Pneumonia and pathogenesis?
5. Universal precautions.
6. Define Acute Renal Failure. Add a note on it's the causes, clinical features and complications in detail.
7. What is septicemia? How will you manage in ICU?
8. Define anaemia. Write about the four common causes, clinical features and its complication in detail.
9. What are Zoonotic diseases? Mention two parasitic and two bacterial causes of zoonotic diseases.
10. Define Sterilization and list the methods of sterilizations.

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[AHS 1022]

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**PAPER III & IV – APPLIED PATHOLOGY AND MICROBIOLOGY RELATED
TO CRITICAL CARE**

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Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Define Bio Medical Waste. What are the Categories? How will you segregate at the source? Note on importance of Bio Medical Waste Disposal.
2. Define Cerebro Vascular Accident. Discuss in detail about its etiology, risk factors and management in ICU.

II. Write Short Notes on:

(10x6 = 60)

1. Define Emphysema. Mention the types of emphysema and its clinical features.
2. What are the causes for Upper Gastrointestinal bleeding? Mention its clinical features and management.
3. What is PPE? List PPE used in ICU. How will you discard the used PPE?
4. What are the causes for Portal Hypertension? Discuss in detail about its clinical presentation and its Managements in ICU.
5. What is the causative agent, source of infection and mode of transmission of intestinal amoebiasis?
6. What do you mean by Opportunistic infections? Mention four common infections and two malignancies that occurring in HIV patients.
7. Write about etiology and preventive measures of CLABSI (Catheter Related Blood Stream Infections).
8. Barrier nursing methods used in the ICU. What is isolation?
9. What is Bronchio-Alveolar Lavage? Mention briefly about its clinical implication.
10. What are the causes for Viral Hepatitis? Discuss in detail about complications HBV infections?
