

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

[AHS 0321]

MARCH 2021

Sub. Code: 1721

(OCTOBER 2020 EXAM SESSION)

M.Sc. CRITICAL CARE TECHNOLOGY

THIRD YEAR (From 2017-2018 onwards)

PAPER I – ADVANCED CRITICAL CARE PART I

Q.P. Code : 281721

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Define Respiratory Failure. Write in detail about causes, pathophysiology, diagnosis and management of Respiratory Failure.
2. Define Shock. Classify shock. Write in detail about causes and hemodynamic pattern of shock. Add a note on management of septic shock.

II. Write Short Notes on:

(10x6 = 60)

1. Management of Cardiac Arrest Patient.
2. Ventilator Associated Pneumonia.
3. Post Intensive Care Syndrome.
4. Cardiac Catheterization.
5. Euthanasia.
6. Treatment of Status Epilepticus.
7. Mobile Coronary Care Unit.
8. Inotropic Support.
9. Measures to ensure successful Extubation.
10. Airway Management during Covid 19 pandemic.

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

[AHS 0122]

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

Sub. Code: 1721

**M.Sc. CRITICAL CARE TECHNOLOGY
THIRD YEAR (From 2017-2018 onwards)
PAPER I – ADVANCED CRITICAL CARE PART I
Q.P. Code : 281721**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. What are the neurological emergencies? Define acute stroke. Write in detail about Risk factor, pathogenesis of acute stroke. Add a note on Approach to Reperfusion therapy for Acute Ischemic Stroke.
2. Define Invasive Mechanical Ventilation. Write in detail about indications, modes and settings of Mechanical Ventilation.

II. Write Short Notes on: (10x6 = 60)

1. Arterial Blood Gas Analysis.
2. Delirium in ICU.
3. Management of Hypotension.
4. Pulmonary Function Tests.
5. Management of Tension Pneumothorax.
6. Emergent Airway Adjuncts.
7. Burn out Syndrome.
8. Anti-Arrhythmic Drugs.
9. Management of Heat Stroke.
10. Palliative Care Services in ICU.

THE TAMIL NADU M.G.R. MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 1721

**M.Sc. CRITICAL CARE TECHNOLOGY
THIRD YEAR (From 2020-2021 onwards)
PAPER I – ADVANCED CRITICAL CARE PART I
BRANCH I – GENERAL CRITICAL CARE AND RESPIRATORY**

Q.P.Code:281721

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Mr. 'X' is admitted to Medical Intensive Care Unit with a diagnosis of Guillain Barre Syndrome.
 - a) Describe pathophysiology with clinical manifestations.
 - b) List the diagnostic test that could confirm diagnosis.
 - c) Enumerate the aspects of medical management.
 - d) Write nursing management of patient with GBS.
2. Master N met with road traffic accident and was declared brain dead.
 - a) Describe brain dead protocol.
 - b) What are the differences between brain death and persistent vegetative state?
 - c) Plan a holistic care on a patient in persistent vegetative state.

II. Write Short notes on:

(10 x 6 = 60)

1. Cardiac enzymes.
2. Ventilator settings in management of Acute Respiratory Distress Syndrome.
3. Complications of Unconsciousness.
4. Chest physiotherapy in critical care.
5. Heplock maintenance.
6. Homan's sign.
7. ECMO and types of circuits.
8. ICU psychosis.
9. Pharmacovigilance program of India.
10. Management of acute pulmonary embolism.
