

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

[AHS 0321]

MARCH 2021

Sub. Code: 1722

(OCTOBER 2020 EXAM SESSION)

M.Sc. CRITICAL CARE TECHNOLOGY

THIRD YEAR (From 2017-2018 onwards)

PAPER II – ADVANCED CRITICAL CARE PART II

Q.P. Code : 281722

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What are the causes of cardiac arrest in bronchial asthma and write in detail about the management and prevention of the same.
2. Write in detail about the causes, clinical features and management of Urosepsis.

II. Write Short Notes on:

(10x6 = 60)

1. Delta Ratio
2. Write the indications and types of Pacemaker
3. Recovery Position
4. Write about the management of ICU Psychosis
5. Immediate care of post transplant patient
6. Write about the universal precautions
7. Management of status epileptics
8. Ventilator strategy in COVID positive respiratory failure
9. Applications of EtCo₂ in CPR
10. Thrombolytic therapy in ischemic stroke

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

[AHS 0122]

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

Sub. Code: 1722

**M.Sc. CRITICAL CARE TECHNOLOGY
THIRD YEAR (From 2017-2018 onwards)
PAPER II – ADVANCED CRITICAL CARE PART II
Q.P. Code : 281722**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. Discuss the preoperative assessment, preparation and counseling of a patient posted for Pneumonectomy.
2. 25 years old primigravida with 38 weeks of pregnancy in labor admitted in labour ward and suddenly she collapsed. Discuss in detail about the management.

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

1. Bladder training.
2. Burn out syndrome.
3. Mobile cardiac care unit.
4. Principle involved in Pulse oximeter.
5. Medical management of increased intracranial tension.
6. Management of hyperkalemia.
7. Inverse ratio ventilation.
8. Care of a Dialysis machine.
9. Trigeminal neuralgia.
10. Laryngeal oedema.

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 1722

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

Q.P. Code: 281722

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Define oxygen dissociation curve. What are the ways to deliver oxygen to tissue? Explain on low flow oxygen delivery devices.
2. Define acute exacerbation of COPD. Write on its ventilatory and medical management.

II. Write notes on:

(10 x 6 = 60)

1. Hazards of aerosol therapy.
2. Mallam Patti classification.
3. Explain about CPAP – Draw the volume / time scalar of CPAP with PS mode.
4. Prone Ventilation.
5. Define capnography and its significance.
6. Ventilatory strategy in COVID positive respiratory failure.
7. Postural Drainage and Chest physiotherapy in Atelectasis.
8. Briefly explain on Shunt and dead space.
9. Ventilator Associated Pneumonia (VAP) bundle.
10. Can't intubate, can't ventilate what will you do?
