

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

[AHS 0122]

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

Sub. Code: 1711

**M.Sc. CRITICAL CARE TECHNOLOGY
SECOND YEAR (From 2017-2018 onwards)
PAPER I – GENERAL CRITICAL CARE
*Q.P. Code : 281711***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. a) What is the definition of Positioning of the Patients?
b) Explain the Purpose, Principle and types of Positioning.
c) What are the effects of positioning of the patient?
d) What are the different Types of Positioning?
2. a) Define Airway Suctioning.
b) Explain about the Closed Airway Suctioning.
c) What are the indications of Closed Airway Suctioning and explain its the Procedure.
d) What are the complications and how will you minimize the complication of Closed Airway Suctioning?

II. Write Short Notes on:

(10x6 = 60)

1. What are the four views in Echocardiography seen in ICU? Review in detail the significance of Parasternal long Axis and short axis view.
2. When Pulmonary Artery Catheter is used? What are the indications and contraindications of pulmonary Artery Catheterization (PAC)?
3. a) Define Cardioversion. b) Indications of Cardioversion
c) Types of Cardioversion d) Complication of Cardioversion
e) Difference between Cardioversion & Defibrillation
4. Glasgow Coma Scale.
5. Pulse Oximeter – Principles, Advantages and pitfalls in monitoring.
6. Explain the basic troubleshooting method in ECG Machine.
7. Importance of Monitoring Sedation and Analgesia in ICU.
8. What is IABP. What are the indications of IABP? Describe the pathophysiology of the IABP.
9. What is Weaning Failure. What are the causes of Weaning Failure? Signs of Weaning Failure. What is Terminal Weaning.
10. a) Define Pericardiocentesis
b) Indications and Contraindications of Pericardiocentesis
c) Procedure of Pericardiocentesis
d) Complications of Pericardiocentesis
