

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

[AHS 0423]

APRIL 2023

Sub. Code: 1236

B.Sc. CRITICAL CARE TECHNOLOGY
THIRD YEAR (Regulations 2014-2015, 2015-2016 & 2018-2019 onwards)
PAPER I – ICU MONITORING – II + MAINTENANCE OF EQUIPMENT
Q.P. Code: 801236

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Classify Arrhythmias. Discuss the functions of a defibrillator.
2. Discuss the essential ways a patient should be monitored on a ventilator.
3. Discuss the uses of a Bronchoscope in the ICU. What are the parts? Discuss how it is best maintained after use.

II. Write notes on: **(8 x 5 = 40)**

1. PEEP.
2. Pressure Control Ventilation - Advantages.
3. Nutrition assessment of ICU patients.
4. ABG use in ICU.
5. Draw a normal ECG and label waves, segments and intervals.
6. Pulse oximeter - usefulness in ICU.
7. Difficult intubation preparation.
8. Lung protective ventilation.

III. Short answers on: **(10 x 3 = 30)**

1. List essential monitors for a patient with circulatory shock.
2. Problems with pulse oximeter measurement.
3. Causes of low tidal volume alarm.
4. Causes of high-pressure alarm.
5. Humidification of circuits.
6. Non Invasive Ventilation - Advantages.
7. Steps in extubation.
8. List sites for central line placement.
9. Monitors used in head injury.
10. Parameters of Fluid responsiveness.
