

[AHS 0321]

MARCH 2021

Sub. Code: 1248

(AUGUST 2020 EXAM SESSION)

B.Sc. CRITICAL CARE TECHNOLOGY**SECOND YEAR (From 2018-2019 onwards)****PAPER III – ICU MONITORING I (BASIC) & BIOMEDICAL ENGINEERING*****Q.P. Code : 801248*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. List the indications for Intubation. How to assess difficult Airway? Describe the procedure for Rapid Sequence Intubation.
2. Pulse oximetry - Principles, advantages and pitfalls in monitoring.
3. Describe the Four Arrest Rhythms and the cause of sudden cardiac arrest in ICU.

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

1. Management of Hypoxia on Ventilated patient.
2. Multiparameter Monitoring
3. 12 Leads ECG – positions.
4. Describe in detail about Patient ventilator Dyssynchrony.
5. Post Resuscitation Care.
6. Importance of monitoring lung volume in ICU patients.
7. Factors that affect oxygen consumption.
8. Alveolar Gas equation.

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

1. Prevention of Bed sore.
2. List out the things to check before using Defibrillator
3. Acquired Cross infections in ICU.
4. Draw CVP trace and label.
5. Three causes of Upper Respiratory Bleeding.
6. List pitfalls of NIBP monitoring.
7. Mention 3 causes of drowsiness in ICU patients.
8. Complications during Haemodialysis.
9. Dead space.
10. Classify Medical Instruments.
