

[LI 0416]

APRIL 2016

Sub. Code: 1001

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS
FINAL YEAR
PAPER I - BASIC SCIENCES APPLIED TO CRITICAL CARE**

Q.P. Code :231001

Time : Three hours

Maximum : 100 Marks

I. Elaborate on :

(2 x 20=40)

1. What is Preload? How does it differ from Preload responsiveness? How can one utilize Heart Lung interactions to predict fluid responsiveness in mechanically ventilated patient? Describe a technique to predict fluid responsiveness in a spontaneously breathing patient.
2. What is Metabolic Acidosis? How do you assess the degree of compensation for Metabolic Acidosis? Elaborate on the clinical approach to diagnose the cause of Metabolic Acidosis with a brief explanation on the utility of serum Osmolal Gap.

II. Write notes on:

(10 x 6 = 60)

1. Compare and contrast Succinylcholine, Vecuronium and Cisatracurium.
2. Cerebral Perfusion Pressure.
3. Anatomy of Coronary Circulation.
4. Ventilation Perfusion mismatch.
5. Pathophysiology of Hepatorenal syndrome.
6. Extended spectrum Beta Lactamase.
7. Mixed venous oxygen saturation.
8. Amiodarone.
9. Hypophosphatemia.
10. Plateau airway pressure – its measurement and significance.
