

[LL 1017]

OCTOBER 2017

Sub. Code: 1001

**FELLOWSHIP IN CRITICAL CARE MEDICINE EXAMS  
FINAL EXAMS  
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 cardiac output? What are the factors determining cardiac output? Describe a technique to predict fluid responsiveness in a spontaneously breathing patient.
2. What is the difference between ventilation and respiration? Enumerate regulation of respiration. Mention the types of respiratory failure .

**II. Write notes on:**

**(10 x 6 = 60)**

1. Adrenaline.
2. Definition and ECG changes in Hyperkalaemia.
3. Myxedema coma.
4. Anatomy of circle of Willis.
5. Oxygen dissociation curve.
6. Applied anatomy of femoral triangle.
7. Ventilation perfusion mismatch.
8. Significance of lactic acidosis.
9. What are supraglottic airways? Mention its types.
10. Pain pathway.

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