

DIPLOMA IN ANAESTHESIOLOGY (DA) EXAMINATION

**APPLIED BASIC SCIENCES RELATED TO ANAESTHESIA,
HISTORY OF ANAESTHESIA AND PHYSICS IN ANAESTHESIA**

Q.P.Code: 343030

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Explain physiology of cardiac cycle and determinants of cardiac output. Add a note on inotropic agents.
2. Describe the physiological changes in pregnancy and the anaesthetic implications.

II. Write notes on:

(10 x 7 = 70)

1. Dalton's law of partial pressure of gases.
2. August Bier.
3. Minimum alveolar concentration.
4. Oxygen cascade.
5. Myocardial oxygen balance.
6. Humidifiers.
7. Dexmedetomidine.
8. Second gas effect.
9. Informed consent.
10. Principles of Capnography.
