

**M.D. DEGREE EXAMINATION
BRANCH X – ANAESTHESIOLOGY**

**PAPER I – APPLIED BASIC SCIENCES RELATED TO ANAESTHESIA
INCLUDING PHYSICS IN ANAESTHESIA, HISTORY
OF ANAESTHESIA**

Q.P. Code :202040

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe briefly the working principle of pulseoximetry and capnography and describe their role in anaesthesia.
2. Classify adrenergic receptors and write on clinically used drugs acting on adrenergic receptors.

II. Write notes on:

(10 x 7 = 70)

1. Vital capacity.
2. Pin index system.
3. August Bier.
4. Diffusion hypoxia.
5. Cisatracurium.
6. Liquid oxygen.
7. Rotameter.
8. Hydroxyl ethyl starch.
9. Mixed venous oxygen tension.
10. Poynting effect.
