

M.D. DEGREE EXAMINATION

BRANCH X – ANAESTHESIOLOGY

**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:

(2X15=30)

1. Describe the anatomy of larynx with differences in adults and children. Explain with diagram the various nerve palsies of larynx.
2. Name the adrenergic agonists and antagonists. Describe in detail their uses in anaesthetic practice.

II. Write notes on:

(10X7=70)

1. Discuss the factors influencing vaporizer output.
2. SIR IVAN MAGILL and his contribution to anaesthesia.
3. Alveolar gas equation and its importance in anaesthesia.
4. I-GEL Airway – Description and benefits.
5. Discuss the physical principles of pulse oximetry.
6. Functional Residual Capacity – Definition and factors affecting FRC.
7. Describe the Anaesthesia Machine check protocol.
8. Differential Nerve Block – Description and uses.
9. Ergometrine Vs Oxytocin – Pharmacology, uses dose and side effects.
10. Context Sensitive half time – Definition, its relation to elimination half time and time to recovery.
