

**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. Describe the anatomy of coronary circulation with a diagram. Discuss the factors regulating coronary blood flow.
2. Describe the Physiology of neuromuscular junction. Write in detail about the neuromuscular blockade monitoring.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Hypoxic pulmonary vasoconstriction.
2. Transport of CO<sub>2</sub> in blood.
3. Henry's law.
4. Sir Robert McIntosh.
5. Positive end expiratory pressure.
6. Coagulation cascade.
7. Placental barrier.
8. Supraglottic devices.
9. Air embolism.
10. Cerebral autoregulation.

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