

**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2014-2015)

**SECOND YEAR**

**PAPER IV – PATHOLOGY, PATHOPHYSIOLOGY AND  
PHARMACOLOGY**

*Q.P. Code: 801219*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Elaborate on the classification, preparations, clinical uses and adverse effects of Corticosteroids.
2. Elaborate on the pharmacology of ANY FOUR skeletal muscle relaxants.
3. Describe the classification, preparations, clinical uses and adverse effects of ANY FOUR inotropic drugs used in emergencies.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Advantages and disadvantages of Intra-Venous (IV) route.
2. ANY FIVE drugs in hypertensive emergencies.
3. Clinical uses and adverse effects of beta blockers.
4. Cetirizine.
5. Clinical uses and adverse effects of gentamicin.
6. Clinical uses of nitrates.
7. Role of glycopyrrolate in anaesthesia and critical care practice.
8. Role of beta stimulants as bronchodilators.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Midazolam.
2. Reversal of opioid over dosage.
3. Different actions and uses of dopamine based on dosing rates.
4. Thiopentone sodium.
5. ANY THREE pharmacological actions of diazepam.
6. Mucolytic agents.
7. Transdermal therapeutic systems.
8. Clinical uses of adrenaline.
9. Adverse effects of Non-Steroidal Anti-Inflammatory Agents (NSAIDs).
10. Role of oxygen as a therapeutic gas in critical care practice.

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