

[LQ 126]

AUGUST 2020  
(MAY 2020 SESSION)

Sub. Code: 2023

**M.D. DEGREE EXAMINATION**

**BRANCH VI – PHARMACOLOGY**

**PAPER II – SYSTEMIC PHARMACOLOGY INCLUDING  
RECENT ADVANCES**

*Q.P. Code: 202023*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay: (2 x 15 = 30)**

1. Describe the actions of serotonin in physiological systems and the drugs affecting 5 HT signaling.
2. a. Discuss the cellular and molecular mechanisms of action of general anaesthetics.  
b. Describe briefly the pharmacology of parenteral anaesthetics.

**II. Short notes: (10 x 5 = 50)**

1. Recent advances in pharmacotherapy of migraine
2. Natriuretic peptides
3. Clinical use of vasopressin agonists
4. Therapy of Alzheimers disease
5. Anti integrin agents
6. Compare the actions of various calcium channel blockers on the cardiovascular system
7. Drugs acting on Orexin receptors
8. Antisense oligonucleotides
9. Peroxisome proliferator activated receptor modulators
10. Drug induced pulmonary toxicity

**III. Reasoning Out: (4 x 5 = 20)**

1. Role of nondopamine receptors as targets for psychosis
2. Significance of nitric oxide as a therapeutic agent
3. Role of biologic response modifiers in rheumatoid arthritis
4. Guidelines for opiate dosing

\*\*\*\*\*