

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 982]

MAY 2019

Sub. Code: 2982

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-I**  
**PHARMACOLOGY – MPL**  
**PAPER II – ADVANCED PHARMACOLOGY – I**

*Q.P. Code : 262982*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Discuss the absorption of drugs. What are the factors affecting drug absorption.  
b) Explain the influence of pH and partition co-efficient on drug absorption.  
Explain briefly how drugs are absorbed from various routes.
2. List out various neurotransmitters and receptors involved in signal transduction with special reference to central nervous system.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Synthesis and degradation of catecholamine.
2. What is mania? Explain the pharmacology of lithium carbonate.
3. Angiotensin converting enzyme (ACE) inhibitors.
4. Oral anti-coagulants.
5. 5-HT-Antagonists.
6. Anti-arrhythmic drugs.
7. Beta-blockers.

\*\*\*\*\*