

[LD 345]

OCTOBER 2013  
M.PHARM. DEGREE EXAMS  
FIRST YEAR

Sub. Code: 2906

BRANCH II – PHARMACEUTICAL CHEMISTRY  
PAPER III – ADVANCED MEDICINAL CHEMISTRY

*Q.P. Code : 262906*

**Time : 3 hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2x20=40)**

1. a) Describe in details about receptor types and sub types.  
b) Classify antihypertensive drugs with examples. Give the mechanism of action and synthesis of one drug form two different classes.
2. a) Define prodrug. Explain with examples the different aspects of prodrugs in drug designing.  
b) Discuss in detail about different approaches in drug design from lead molecule.

**II. Write notes on :**

**(10x6=60)**

1. Hansch analysis in QSAR studies.
2. Molecular mechanics.
3. 3D QSAR approaches in drug design.
4. How partition coefficient affect the biological activity of a drug with example
5. Enzyme inhibitors in basic research.
6. Role of chirality in selective and specific therapeutic agents.
7. Method of manufacture of paracetamol.
8. Irreversible gastric proton pump inhibitors.
9. Immuno stimulants.
10. Synthesis and mode of action of anti viral agent.

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