[LA 345]

MAY 2012 M.PHARM. DEGREE EXAMINATION FIRST YEAR

Sub. Code: 2906

BRANCH II – PHARMACEUTICAL CHEMISTRY PAPER III – ADVANCED MEDICINAL CHEMISTRY

Q.P. Code: 262906

Time: 3 hours (180 Min)	Maximum: 100 marks		
Answer ALL questions in the same or	der.		
I. Elaborate on:	Pages (Max.)	Time (Max.)	Marks (Max.)
1. a) Explain the analog design and detail on bioisosteric	` ,	· · ·	` ,
replacement with examples.			
b) Discuss the rational of prodrug design and practical			
consideration.	17	40	20
2. a) Explain the importance of enantio selectivity in			
drug absorption, metabolism, distribution			
and elimination.			
b) Write briefly about gastric proton pump inhibitors.	17	40	20
II. Write notes on:1. Explain the chemistry and biological significance of			
prostaglandins.	4	10	6
2. Explain 3D QSAR approaches.	4	10	6
3. Give detailed account of alkylating agents as anti-neop	lastic		
drugs.	4	10	6
4. Write briefly on Quantum mechanism.	4	10	6
5. Write a note on immuno stimulants.	4	10	6
6. Outline the Steps involved in the manufacture of			
Diphenhydramine.	4	10	6
7. Write a note on covalently binding enzyme inhibitors.	4	10	6
8. Discuss about drug receptor interactions.	4	10	6
9. Explain pharmacophore models.	4	10	6
10. Give the application of Craig plot.	4	10	6
