

[LI 352]

APRIL 2016

Sub. Code: 2913

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH IV – PHARMACOLOGY
PAPER IV – DRUG DESIGN AND MOLECULAR PHARMACOLOGY**

Q.P. Code : 262913

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define Receptor and state its properties.
b) Discuss in detail about various Receptor theories.
2. a) Explain about the various lead seeking methods in Drug design.
b) Discuss about Pro-drug concepts.

II. Write notes on:

(10 x 6 = 60)

1. Write about the clinical application of gene therapy.
2. Discuss about biosensors.
3. Explain about the principles of recombinant DNA technology.
4. Discuss about the approaches of array technology in drug discovery.
5. Explain about partition coefficient in relation to drug design.
6. Discuss about the fundamentals of SAR.
7. Write note on chelates formation importance.
8. Write note on Isosterism.
9. Explain about gene expression.
10. Discuss about gene transfer technologies.
