

[LL 352]

OCTOBER 2017

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. Write about the protein structure prediction and molecular modeling.
2. Classify Receptors. Explain various theories and forces involved in drug Receptor interaction.

II. Write notes on:

(10 x 6 = 60)

1. Bio-sensors.
2. Partition co-efficient.
3. Write the importance of chelates in medicine.
4. Viral vectors in Gene therapy.
5. Describe the structure of G-protein coupled receptors.
6. What are Ion channels? Explain how Ion channels act as drug targets.
7. Explain about the identification of a pharmacophore in computer aided drug design.
8. Oxidation reduction potential.
9. Cell signaling.
10. QSAR parameters related to chemical structure.
