

[LG 352]

APRIL 2015

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 a note on protein structure prediction and molecular modeling.
2. a) Discuss detail on regulation of gene expression.
b) Write essay on combinatorial chemistry.

II. Write notes on:

(10 x 6 = 60)

1. Write the pharmacodynamic and pharmacokinetics of peptide and protein drug.
2. Discuss about the vectors used in gene therapy.
3. Discuss briefly about rational drug design.
4. Write a note on gene mapping.
5. Explain about the isolation of RNA from yeast.
6. Applications of molecular pharmacology.
7. Discuss about the signal transduction pathway.
8. Discuss about the oxidation reduction potential.
9. Explain about isosterism.
10. Write a note on computer aided drug design.
