

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**M.PHARM. DEGREE EXAMINATION – December 2018
Second Semester**

BRANCH : PHARMACOLOGY

PRINCIPLES OF DRUG DISCOVERY

Time : Three hours

Maximum: 75 marks

**(Draw neat labeled diagrams wherever necessary
your answer should be specific to the questions asked)**

SECTION –A

I. Answer any **THREE** questions: **(3 x 15 = 45)**

1. Write a note on the new approaches in drug discovery.
2. Discuss in detail about QSAR.
3. Describe briefly the basic concept of prodrug design.
4. Explain in detail on the concept of rational drug design.

SECTION –B

II. Answer any **THREE** questions: **(3 x 10 = 30)**

5. Give note on siRNA.
6. Write on Hansch and Free Wilson analysis with their relationship.
7. Mention the applications of NMR and X-ray crystallography in protein structure prediction.
8. Discuss about Denovo drug design.