

FACULTY OF PHARMACY

M. Pharmacy (Pharmacology) II–Semester (PCI) Main Examination,

August 2018

Subject : Principles of Drug Discovery

Time : 3 Hrs

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

1. Explain Target and lead with examples. Write abt varis methods of target identification (15)
2. (a) Explain rational approach for drug design. (8)
(b) Explain in brief the role of proteomics in target identification. (7)
3. What is QSAR? Give advantages and disadvantages of QSAR. Explain Hantzsch analysis and Free Wilson analysis. (15)
4. (a) Write a note on CoMFA. (7)
(b) How computer aided drug design is useful in new drug discovery and development. (8)
5. (a) Describe the methods of lead optimization. (8)
(b) What do y understand abt De Novo drug design? (7)
6. (a) Write a note on prediction of protein structure. (8)
(b) Describe varis lead seeking methods in drug design. (7)
7. Write a note on
(a) Drug likeness screening (8)
(b) pharmacophore based screening (7)
8. (a) Write a principle involved in design of pro-drug. (8)
(b) Explain the term molecular docking. (7)
