

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester IV
Mid SEM Examination, March-April 2017
Subject: Medicinal Chemistry –I (PC-411)

Time: 2 hrs

Date: 27/03/2017

Marks: 60

Q.1 Answer any 12 questions. Each question carries 1 mark

[12*1=12]

1. Full form of SAR is _____.
2. What is pharmacokinetics?
3. Define lead optimization.
4. Give the types of Rational designing.
5. Full form of HTS is _____ and LTS is _____.
6. Which of the following statements is true?
 - (a) Drugs and drug targets generally have similar molecular weights
 - (b) Drugs are generally smaller than drug targets.
 - (c) Drugs are generally larger than drug targets.
 - (d) There is no general rule regarding the relative size of drugs and their targets
7. Definition of prodrug.
8. What are two basic interaction for molecular modeling?
9. Define molecular modeling.
10. Give two main aspects of molecular modeling.
11. What is CADD?
12. What is pharmacodynamics?
13. Full form of IND is _____.

Q.2 Answer any 5 questions. Each question carries 04 marks

[5*4=20]

1. What is prodrug? Explain the historical evolution of prodrug.
2. Explain the novel classification of prodrug.
3. Write a short note on rational drug designing.
4. Explain DENOVO Drug design
5. Explain computer aided drug design.
6. Explain the concept of drug designing in clinical development.

Q.3 Answer any 4 questions. Each question carries 07 marks

[4*7=28]

1. Explain the objectives of prodrugs.
2. Explain the type of rational drug designing.
3. Explain the overview of drugs in major stage of drug development.
4. Define docking? Discuss the step of docking.
5. Explain in brief ligand base and structure base drug designing.