

Hemchandracharya North Gujarat University, Patan

Bachelor of Vocation

'Pharmaceutical Chemistry' Semester - IV

END TERM Examination, April, 2019

Subject: Medicinal Chemistry I (PC-411)

Time: 2 hrs

Date: 25/04/2019

Maximum marks: 50

Q.1 Answer any 9 questions. Each question carries 1 mark (9*1=9Marks)

1. Define Bio-isosteres.
2. What is Drug Solubility?
3. What is Lipophilicity?
4. Give definition of chelation.
5. Plasma protein binding with drug molecules decreases pharmacological response. (True/False)
6. What is a class-II drug as per BCS?
7. Give two examples of drugs which remain unionised at all pH.
8. Give design of following term: -
 - A) Drug design
 - B) Pharmacophore
9. For the first time Pro-drug term was introduced by Adrien Albert. (True/False)
10. Give the pro-drug of following: -
 - A) Dopamine
 - B) Sulphasalazine

Q. 2 Answer any 5 questions. Each question carries 4 marks (5*4=20 Marks)

1. Brief note on physicochemical factors which can change biological activity of drug.
2. Give a brief note on drug design.
3. Short note on various techniques used for drug design.
4. Give overview of drug design & drug development.
5. Brief note on Drug discovery.
6. Write a short note on H-bonding & protein bonding.

Q.3 Answer any 3 questions. Each question carries 07 marks (3*7=21 Marks)

1. Explain in detail about Ionisation.
2. Explain in detail about Partition co-efficient.
3. Describe in brief about solubility.
4. Give detail note on Lead optimization.