

Pratik Swami Science & H.D. Patel Arts College, Kadi
Bachelor of Vocation Pharmaceutical Chemistry Semester- IV

Internal Examination, March-2019,
(PC-411) Medicinal Chemistry-I

Time: 2 hours 25/03/2019 Total Marks: 60

Que-1. Answer any 12 questions. Each question carries 1 mark. [12]

1. Define Partition co-efficient.
2. What is Chelation?
3. Full form of MAD& BCS.
4. Define Bio-isosteres.
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
11. What is Drug Solubility?
12. What is Lipophilicity?
13. Enlist the name of proteins present in Blood Plasma?

Que-2. Answer any five questions. Each question carries 4marks. [20]

1. Explain in brief about stereoisomer.
2. Write a short note on H-bonding & protein bonding.

3. Enlist physicochemical factors which can change biological activity of drug.
4. Short note on drug design.
5. Give overview of drug design & drug development.

Que-3. Answer any four questions. Each question carries 7 marks. [28]

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.
5. Give a brief note on lead discovery.