

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations
December 2019
Medicinal Chemistry - 1
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Discuss in detail bioisosterism and optical isomerism with suitable examples.
2. Discuss the SAR of benzodiazepines. Give the synthesis of diazepam.

Short Notes

(7x5=35)

3. Give an account of importance of hydrogen bonding in drug action.
4. SAR of adrenergic agonists.
5. How will you synthesize propranolol. Give its therapeutic uses.
6. Briefly discuss cholinesterase reactivators.
7. Discuss the distribution of cholinergic receptors.
8. Give the synthesis of phenytoin. Write its mechanism of action and pharmacological uses.
9. Give the synthetic pathway to synthesize chlorpromazine. Enumerate its therapeutic uses.

Answer Briefly

(10x2=20)

10. Give the structure and uses of codeine.
11. Write the structure of one ultra-short acting barbiturate.
12. Draw the structure of • Piroxicam • Gabapentin
13. Classify anti-inflammatory agents with examples.
14. Write the structure of a drug used for trigeminal neuralgia.
15. Write the mechanism of action of beta adrenergic blockers.
16. Structure and uses of acetaminophen.
17. Synthesis of procyclidine.
18. Mechanism of action and uses of salbutamol.
19. Draw the structure and uses of neostigmine.
