

QP Code: 422006

Reg. No.....

Fourth Semester B.Pharm Degree Examinations July 2019

Medicinal Chemistry - 1

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Summarize the structural activity relationship of sympathomimetic agents with suitable illustrations.
2. Discuss the mechanism of action, synthesis of any one compound and SAR of benzodiazepines.

Short Notes

(7x5=35)

3. Explain about geometrical isomerism and its influences to biological action.
4. Summarize structural activity relationship of morphine analogues
5. Write briefly about phase I metabolism of drugs with suitable examples.
6. Outline biosynthesis of acetylcholine and cholinergic receptors distribution.
7. Explain the mechanism of action and use of • Ephedrine • Neostigmine
• Meprobamate • Droperidol • Piroxicam
8. Write the synthesis and mechanism of action of carbamazepine.
9. Draw structure and uses of • Oxazepam • Triflupromazine • Valproic acid
• Phenylephrine • Phensuximide

Answer Briefly

(10x2=20)

10. Mention any two alpha adrenergic blockers and its uses.
11. Define antipsychotics and give two examples.
12. Write the structure, mechanism and uses of haloperidol.
13. Draw the structure of Ketamine hydrochloride and mention its uses
14. Define bioisosterism and give one example.
15. Draw two structures of Barbiturates.
16. Synthesis of carbachol.
17. Write any two structures of aryl propionic acid derivative of anti-inflammatory and analgesic agents.
18. Give the structure of any two cholinergic blockers
19. Mechanism of action and uses of aspirin.
