QP Code: 422006	Reg. No
	

Fourth Semester B.Pharm Degree Regular/Supplementary Examinations February 2024 Medicinal Chemistry - 1

(2017 Scheme)

Time: 3 Hours Max. Marks: 75

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw diagrams wherever necessary

Essays (2x10=20)

- 1. What are Beta blockers. Give examples. Explain important structure activity relationship features. How do you synthesise Propranolol.
- 2. Explain Hydrogen bonding and Protein binding of drugs and their effect on biological activity with example.

Short Notes (7x5=35)

- 3. What is bioisosterism. Classify and give examples
- 4. Indirectly acting sympathomimetic agents. Give structure and mechanism of action of any one drug.
- 5. What are Solonaceous alkaloids. Give examples and their mechanism of action.
- 6. Write a note on reversible Cholinesterase inhibitors giving examples and mechanism of action
- 7. Classify antipsychotic agents giving examples for each class. Write the general mechanism of action and uses of these drugs.
- 8. Draw the structure and uses of
 - a) Salbutamol. b) Ibuprofen. c) Methacholine d) Methadone.
- 9. Explain the SAR of barbiturates.

Answer Briefly (10x2=20)

- 10. Enlist any four factors effecting metabolism of drugs.
- 11. Distribution of cholinergic receptors in body.
- 12. How do you synthesise Carbachol.
- 13. Write the structure of Chlordiazepoxide and give its mechanism of action.
- 14. Give the synthetic route for Diphenylhydantoin.
- 15. Write the general mechanism of action of NSAIDS
- 16. Write the structure and uses of Physostigmine.
- 17. Structure and uses of Glutethimide.
- 18. Write the chemical structure and uses of Ephedrine.
- 19. Enlist important effect of Adrenaline.
