

QP Code: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Regular Examinations January 2020
Medicinal Chemistry
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays

(2x10=20)

1. Define and classify alkylating agents. Describe the mechanism of action and synthesis of any one alkylating agent.
2. What are antihypertensive agents. Classify them with examples. Write the synthesis of furosemide and acetazolamide.

Short Notes

(7x5=35)

3. Write a note on drugs used in erectile dysfunction.
4. Explain oral contraceptives with examples.
5. Classify oral hypoglycemic agents with at least one structure from each class.
6. Explain the SAR of amino benzoic acid derivatives.
7. Chemistry, mechanism of action and uses of L-thyroxine.
8. Chemistry and uses of angiotensin converting enzyme inhibitors.
9. Chemistry and uses of cisplatin and sodium nitroprusside.

Answer Briefly

(10x2=20)

10. What are loop diuretics.
11. Outline the synthesis of procaine.
12. Draw the structure of Dibucaine and its uses.
13. Draw the structure of any two anti-arrhythmic drugs.
14. Anticoagulants.
15. Write the mechanism of action of potassium sparing diuretics.
16. Give the structure and uses of diphenhydramine and promethazine.
17. Synthesis of methotrexate.
18. Chemistry and uses of nitro vasodilators.
19. Structure and uses of digitoxin
