

Fifth Semester B. Pharm Degree Supplementary Examinations
January 2021
Medicinal Chemistry
(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. Enumerate the classification of alkylating agents with examples, mechanism of action and synthesis of meclorethamine.
2. Classify antihypertensive agents with at least one structure from each class. Write the mechanism of action of angiotensin converting enzyme inhibitors. Explain the synthesis of any one thiazide diuretics.

Short Notes**(7x5=35)**

3. Chemistry and mechanism of action of gastric proton pump inhibitors.
4. Chemistry, mechanism of action and uses of acetazolamide.
5. Calcium channel blockers.
6. Explain the chemistry of insulin.
7. Histamine receptors and their distribution in human body. Mention the uses of histamine antagonist.
8. Synthesis and uses of benzocaine and procaine.
9. Depict the mechanism of action and synthesis of Disopyramide.

Answer Briefly**(10x2=20)**

10. Write the structure and use of diethyl stilbestrol.
11. Outline the role of glucosidase inhibitors as antidiabetic agents.
12. What are corticosteroids. Outline the types with examples.
13. Outline the synthesis of cimetidine.
14. Write the examples and uses of anilide derivatives.
15. Mechanism of action of antithyroid agents.
16. Role of digitalis glycosides in congestive heart failure.
17. Give the structure and use of any one anticoagulant.
18. Outline the synthesis of tolbutamide.
19. Antineoplastic plant products.
