

QP Code: 621006

Reg. No.....

Sixth Semester B. Pharm Degree Supplementary Examinations
October 2023
Medicinal Chemistry III
(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. Explain the concept of combinatorial chemistry and write in detail about pharmacophore modelling.
2. What are antibacterial sulphonamides. Classify them with structural examples and explain the structural activity relationship (SAR) of antimalarial quinolines.

Short Notes

(7x5=35)

3. Explain the structural activity relationship (SAR) of sulphonamides.
4. Outline the chemical synthesis and mechanism of action of chloroquine.
5. Enlist the applications of prodrugs with examples
6. Classify antifungal drugs with structural examples.
7. Outline the chemical synthesis and mechanism of action of isoniazid.
8. Explain the structural activity relationship (SAR) of penicillins.
9. Explain the chemistry and mechanism of action of aminoglycosides.

Answer Briefly

(10x2=20)

10. What are urinary tract anti-infective agents.
11. Give the structures of penicillin degradation products.
12. Outline the chemical synthesis of mebendazole.
13. Outline the chemical synthesis of ciprofloxacin.
14. Give the structure and uses of any two macrolide antibiotics.
15. Explain the mechanism of action of acyclovir.
16. Beta-lactamase inhibitors.
17. Explain the concept of prodrugs.
18. What are monobactam antibiotics.
19. Explain about two QSAR parameters.
