

QP Code: 621006

Reg. No.....

Sixth Semester B. Pharm Degree Supplementary Examinations
January 2022
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. Explain about Quantitative Structure-Activity Relationship (QSAR) concept, Hansch analysis and pharmacophore modelling.
2. Explain the chemistry and mechanism of action of antitubercular antibiotics and Discuss the SAR of quinolones.

Short Notes

(7x5=35)

3. Explain on beta-lactum antibiotics.
4. Classify antimalarial drugs with structural examples.
5. Explain the chemistry and mechanism of action of tetracyclines.
6. Classify antiviral drugs with structural examples.
7. Give the synthesis, mechanism of action and uses of metronidazole.
8. Outline the synthesis and mechanism of action of pamaquine.
9. Explain the Structural Activity Relationship (SAR) of antibacterial sulphonamides.

Answer Briefly

(10x2=20)

10. What are beta-lactamase inhibitors
11. Give the structural examples for synthetic penicillins along with their therapeutic role.
12. Give the structure and uses of following
 - Metronidazole
 - DEC
13. List any four applications of combinatorial chemistry.
14. List the major applications of prodrugs
15. Give the structures and uses of
 - Sulphamethoxazole
 - Dapsone
16. Highlight the important structural requirements for antimalarial activity.
17. Explain the mechanism of action of acyclovir.
18. Write the chemical synthesis of miconazole.
19. Write the chemical synthesis of chloramphenicol.
