

QP CODE:411006

Reg. No:

**Final Year B.Pharm Degree Supplementary Examinations
December 2017**

**PHARMACEUTICAL CHEMISTRY - V
(Medicinal Chemistry)
(2012 scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw chemical structure wherever necessary.

Essay

(3x10=30)

1. Explain the significance of CADD and molecular modelling in drug design.
2. Classify anticancer drugs giving one structure from each class and discuss the mechanism of action and synthesis of methotrexate and 5-fluorouracil.
3. Classify diuretics giving one structure from each class. Explain the mechanism of action and synthesis of furosemide and triamterene

Short Notes:

(14x5=70)

4. Discuss the SAR of tetracyclines.
5. Classify antiviral agents and explain the mechanism of action acyclovir.
6. Outline the synthesis of paracetamol and ibuprofen.
7. Classify antimalarial agents with example. Give the synthesis of chloroquine.
8. What are the importance of proton pump inhibitors.
9. Structure and uses of lignocaine, chlorpromazine, salbutamol and halothane.
10. Discuss the SAR and mechanism of action of sulfonylureas.
11. Classify antihypertensive agents giving one structure from each class.
12. Discuss the chemistry of fluoroquinolones.
13. Discuss the mechanism of action of sulphonamides. Mention the structure and use of silver sulphadiazine.
14. What are the problems associated with natural penicillins
15. Classify beta adrenergic antagonists and mention their uses.
16. Explain the importance of protein binding and chelation on drug action.
17. Give the synthesis of tolinaftate and INH.
