

2012 scheme

QP CODE:411006

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations October 2019

Pharmaceutical Chemistry - V

(Medicinal Chemistry)

Time: 3 Hours

Total Marks: 100

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

Essays

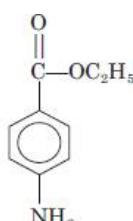
(3x10=30)

1. Explain the significance of ionization and protein binding of drugs in relation to biological action. Explain the mechanism of action of chloramphenicol, cephalosporins and macrolide antibiotics.
2. Classify antineoplastic agents with one example from each class. Give the synthesis of any two of them.
3. Discuss the SAR of sulfa drugs used as antibacterial agents and acetyl choline

Short Notes:

(14x5=70)

4. Give the name, mechanism of action and uses of the drug given below.



5. Discuss the SAR of phenothiazines used as antipsychotics.
6. Classify antiepileptic agents with example.
7. Give the synthesis of one drug belonging to the class of adrenergic agent and adrenergic antagonist.
8. Narcotic analgesics.
9. Classify non-steroidal anti-inflammatory agents giving one example from each class with structure.
10. Give the therapeutic applications of diuretics and antihistaminic agents
11. Give the synthesis, mechanism of action and uses of methyl dopa.
12. What are the mechanisms by which hypoglycemic agents act. Give the structure of any two of them
13. Classify anti-tubercular agents with example. Give the synthesis of metronidazole.
14. Structural features and SAR of tetracyclines.
15. Local anti-infective agents.
16. Applications of quantum mechanics.
17. Explain the mechanism of action and uses of ciprofloxacin and zidovudine
