

Final Year B.Pharm Degree Supplementary Examinations May 2017

PHARMACEUTICAL CHEMISTRY - V
(Medicinal Chemistry)
(2010 scheme)

Time: 3 Hours

Total Marks: 100

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

Essay

(3x10=30)

1. Define the antibiotic. Explain on acid resistant and penicillinase resistant penicilins.
2. Classify anti hypertensives. Explain the mechanism of action of renin angiotensin inhibitors. Outline the synthesis of methyl dopa.
3. Classify diuretics. Explain the chemistry, mechanism of action and uses of hydrochlorthiazide and acetazolamide.

Short notes

(14x5=70)

4. Explain the quantum mechanics.
5. How does optical and geometrical isomerism influence the biological action of drugs.
6. General anesthetics.
7. Outline the synthesis of salbutamol and adrenaline.
8. Differentiate between narcotic and non-narcotic analgesics with examples.
9. Explain on the proton pump inhibitors.
10. Synthesis, mechanism of action and uses of metformin.
11. Structure, mechanism of action and synthesis of isoniazid.
12. Anti fungal agents.
13. Explain on fluoro butyrophenone derivatives as antipsychotics.
14. Sulphones.
15. Cephalosporins.
16. Structure, mechanism of action and synthesis of acyclovir.
17. Anti-metabolites.
