

Final Year B.Pharm Degree Supplementary Examinations - December 2015

**PHARMACEUTICAL CHEMISTRY - V**  
**(Medicinal Chemistry)****Time: 3 Hours****Total Marks: 100**

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

**Essay****(3x10=30)**

1. What are antineoplastic agents and classify them with examples. Outline the synthesis and mechanism of action of methotrexate.
2. Classify antipsychotics drugs. Mention the synthesis, mechanism of action SAR and uses of chlorpromazine.
3. What are antihypertensive agents. Classify them with examples. Explain the synthesis, mechanism of action and clinical uses of methyldopa.

**Short notes****(14x5=70)**

4. How does the steric effect affect the biological activity.
5. Explain the synthesis and uses of diazepam.
6. Synthesis and uses of lignocaine.
7. Drugs used as adrenergic agents .
8. Explain in detail the adrenergic blocking agents. Outline the synthesis of propranolol.
9. Synthesis and mechanism of action of Paracetamol
10. Narcotic analgesics.
11. Explain H<sub>2</sub> receptor antagonists.
12. What are potassium sparing diuretics. Mention the synthesis of triamterene .
13. Local anti infective agents.
14. Synthesis and uses of INH.
15. Structure and uses of metronidazole and dapsone.
16. Name the cholinergic blocking agents and explain the synthesis of any one of them.
17. Chemistry of tetracyclines.

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