

# **2010 scheme**

**QP CODE:401006**

**Reg. No: .....**

## **Final Year B.Pharm Degree Supplementary Examinations April (November), 2020**

### **Pharmaceutical Chemistry - V (Medicinal Chemistry)**

**Time: 3 Hours**

**Total Marks: 100**

- *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**

**(3x10=30)**

1. Classify anti-malarials. Discuss the chemistry, SAR, mechanism of action and uses of aminoquinoline derivatives.
2. Discuss in detail on broad spectrum antibiotics with suitable examples.
3. Classify anti-convulsants. Explain the mechanism of action and synthesis of phenytoin and sodium valproate.

**Short notes**

**(14x5=70)**

4. Explain QSAR.
5. Explain the pKa and the steric effect of the drugs on the biological activity.
6. Explain benzodiazepine derivatives and its uses.
7. Cholinergic agents.
8. Explain anti-hyperlipidemic agents.
9. Synthesis of promethazine and diphenhydramine.
10. Local anti-infective agents.
11. Outline the synthesis of metronidazole and explain its mechanism of action & uses.
12. Anthelmintics.
13. Cephalosporins.
14. Outline the chemistry, mechanism of action and synthesis of para amino salicylic acid.
15. Anti depressants.
16. Enumerate amide based local anesthetics and mention the synthesis of any one drug.
17. Molecular modeling

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