

# **2012 scheme**

**QP CODE:411006**

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

## **Final Year B.Pharm Degree Supplementary Examinations July 2021 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. Define and classify anti-hypertensive agents with examples. Explain the mechanism of ACE inhibitors. Outline the synthesis of methyl dopa.
2. What are anti-pyretics. Write the mechanism of action and SAR of morphine analogues.
3. What are antibiotics. Classify them with suitable examples. Write the Structural Activity Relationship (SAR) of tetracyclines.

### **Short Notes:**

**(14x5=70)**

4. Write the structure and uses of acyclovir and chloroquine.
5. Classify anti-tubercular agents. Write the synthesis of para-aminosalicylic acid (PAS).
6. Explain on chelation.
7. Explain the synthesis and mechanism of action of methotrexate.
8. Write the structural activity relationship (SAR) of benzodiazepines.
9. Classify anti-convulsants. Write the synthesis of sodium valproate.
10. Explain on molecular modelling in drug design.
11. Classify anti-hyperlipidemic agents and draw the structure of any four of them.
12. Classify cholinergic antagonists and explain the SAR.
13. Write the synthesis of salbutamol and propranolol.
14. Explain anti-thyroid drugs.
15. Classify diuretics with examples. Draw the structures of acetazolamide and triamterene.
16. Explain on anthelmintics with examples.
17. Explain about macrolide antibiotics.

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