

# 2012 scheme

QP CODE:411006

Reg. No: .....

## Final Year B.Pharm Degree Supplementary Examinations May 2023 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. What is the biological significance of pKa and optical isomerism in relation to drug action.
2. Discuss with example, steric factors as parameters in QSAR.
3. With examples demonstrate the prodrugs for altering pharmacokinetic properties.

### Short Notes:

(14x5=70)

4. Write the structure and synthesis of any one Penicillin
5. Draw the structure and mechanism of Chloramphenicol.
6. Classify antineoplastic agents giving examples. Give the structure and mechanism of action for methotrexate
7. Classify antiviral drugs. Give the structure and mechanism of saquinavir.
8. Enlist general physical and physicochemical properties of sulpha drug anti-bacterials. How do you synthesize dapson.
9. Define anthelmintics. Write the mechanism and synthesis of DEC.
10. Write the structure of any two anti-protozoal drugs and give their structure.
11. Classify anti-hyperglycemic agents. Write the structure of two important drug.
12. Explain the mechanism of any one anti-hyperlipidemic drug. What is the use of this drug.
13. Classify diuretics and give examples. Explain the mechanism of loop diuretics.
14. Define and name H<sub>2</sub> receptor antagonists. How are they clinically used.
15. How do you synthesize paracetamol. Write the mechanism.
16. Classify adrenergic drugs giving examples. Enlist the structural features.
17. What are the clinical uses of cholinergic drugs. Write the structure and mechanism of action of Carbachol.

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