

2012 scheme

QP CODE:411006

Reg. No:

Final Year B.Pharm Degree Supplementary Examinations

September 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. Explain how ionisation and hydrogen bonding influence the biological activity of drugs.
2. Discuss with example, hydrophobicity as a parameter in QSAR.
3. What are prodrugs. Classify. Give two examples of prodrug and enumerate the distinct applications of it.

Short Notes:

(14x5=70)

4. Write the structure of beta-lactum ring and classify beta-lactum antibiotics giving examples
5. Draw the basic pharmacophore of tetracycline with numbering. Explain the mechanism and uses of tetracyclines
6. Classify antineoplastic agents giving examples. Give the mechanism of action for any two classes
7. How do you synthesize acyclovir. Write the mechanism of action.
8. Classify sulpha drugs. How do you synthesize sulphacetamide
9. What are anthelmintics. Write the mechanism and synthesis of Mebendazole.
10. Write the structure of any two anti-protozoal and give their uses.
11. What are oral anti-hyperglycemic agents. Classify them giving examples and write the structure of any one.
12. Explain the mechanism of lovastatin writing its structure. What is the use of this drug.
13. What are diuretics. Classify them with examples. Explain the mechanism of action of any one.
14. What are proton pump inhibitors. Write their mechanism of action and uses.
15. Classify NSAIDS and give examples for each class. Write the mechanism.
16. Write down the mechanism of action, structure and uses of Pethidine.
17. What are the clinical uses of cholinergic blockers. Write the structure and mechanism of action of Dicyclomine.
