

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0122]

**JANUARY 2022
(MARCH 2021 EXAM SESSION)**

Sub. Code: 2059

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER VI

PAPER I – MEDICINAL CHEMISTRY III

Q.P. Code : 562059

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Define Anti – malarial drugs, write about its classification and synthesis of Chloroquine and Pamaquine.
2. Define combinatorial chemistry and write about solution phase synthesis.
3. a). Define Antibiotics. Write about the classification of anti – biotics.
b). Write about the synthesis and uses of Sulfacetamide and Sulfamethoxazole.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Classify Antiprotozoal agents.
2. Write about synthesis and uses of Ciprofloxacin.
3. Structure activity relationship of Quinolines.
4. Write about applications of prodrug design.
5. Write the structure, mechanism of action and uses of Cephalosporin.
6. Write short notes on biguanides.
7. Molecular docking techniques.
8. Write about the synthesis and uses of Nitrofurantoin.
9. Write about Hansch analysis.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Mechanism of Penicillin.
2. Define Pharmacophore.
3. Give the importance of QSAR studies.
4. What is Cotrimoxazole.
5. Define Molecular modeling.
6. Write the mechanism of action of Albendazole.
7. Write the structure and use of Dapsone.
8. Anti – Protozoal agents.
9. Write a note on Sulfones.
10. Structure of Metronidazole.
