

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

[BPHARM 0921]

SEPTEMBER 2021  
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2059

**B. PHARMACY DEGREE EXAMINATION**  
**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. Discuss briefly about chemistry, classification and SAR of Sulfonamides.
2. Write about the physico-chemical parameters used in Quantitative Structure Activity Relationship (QSAR) studies.
3. Write about the nomenclature, classification and degradation of penicillin.

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

1. Write a note on pharmacophore modeling.
2. Discuss about Structure activity relationship of Quinolones.
3. Write about synthesis and uses of Chloramphenicol.
4. Define and classify drugs used for Urinary tract infection (UTI).
5. Write the structures for the following :
  - a). Ketoconazole
  - b). Acyclovir
  - c). Pyrazinamide
  - d). Thiabendazole
  - e). Sulfamethoxazole.
6. Write a note on Aminoglycosides.
7. Write the synthesis, mechanism of action and uses of Sulfacetamide.
8. Write a note on Anti – malarial drugs.
9. Write the application of prodrug.

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

1. Write the synthesis of nitrofurantoin.
2. What is molecular docking?
3. Write a note on Monobactams.
4. What are beta lactamase inhibitors?
5. Write the structure and uses of Cycloserine.
6. Write the uses of Nalidixic acid and Clotrimazole.
7. Write the synthesis of Diethyl carbamazepine citrate.
8. Define partition coefficient.
9. Write the structure and uses of para amino salicylic acid.
10. Define anthelmintics with examples.

\*\*\*\*\*