

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

[BPHARM 0321]

MARCH 2021

Sub. Code: 2059

(SEPTEMBER 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation 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 Tuberculosis and Anti- tubercular agents. Write about synthesis, mechanism of action of Isoniazid and para amino salicylic acid.
2. Write about Solid phase synthesis and applications of combinatorial chemistry.
3. Write the nomenclature, classification and Structure activity relationship of Tetracycline.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Classification of anti – viral agents.
2. Write a short note on Beta lactamase inhibitors.
3. Discuss about various approaches used in drug design.
4. Write about synthesis of Trimethoprim and Dapsone.
5. Write a note on Macrolide antibiotics.
6. Basic concepts of prodrug design.
7. Write about synthesis of Miconazole and Tolnaftate.
8. Write the structures for the following: a). Metronidazole b). Chloroquine
c). Cotrimoxazole d). Chlorobutanol e). Hexamine
9. Write a short note on Taft's steric parameter.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define partition coefficient.
2. Molecular docking.
3. Write the structure and use of Methanamine.
4. Write the structure of Amantadine Hcl.
5. Define Anthelmintics.
6. Pharmacophore modeling.
7. Antifungal agents.
8. Combinatorial chemistry.
9. Structure and uses of Quinine sulphate.
10. Mechanism of action of Erythromycin.
