

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

[B.PHARM 0323]

MARCH 2023
(SEPTEMBER 2022 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. Discuss briefly SAR, chemistry, degradation and mechanism action of Tetracyclines.
2. Define and classify Anthelmintics. Give synthesis of Mebendazole.
3. Explain the chemistry, mechanism of action and enumerate the synthesis of any one antiviral drug.

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

1. Write the synthesis and mechanism of action of any one Antiprotozoal agent.
2. Discuss briefly the SAR of azole antifungals.
3. Define pharmacophore and discuss briefly on various modeling techniques.
4. Write a note on solid phase synthesis.
5. Explain the chemistry and structure of a) PAS b) Ethambutol.
6. Give an account on crystalluria and depict the strategies utilized to prevent it.
7. Write a note on semisynthetic penicillins and also brief out the advantages of semisynthetic penicillins over natural penicillins.
8. Enumerate the synthesis of metronidazole.
9. Explain the life cycle of malarial parasite.

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

1. Write the structure and use of nalidixic acid.
2. Give an account on benzimidazole anthelmintics.
3. Write a note on third generation quinolones.
4. Write the structure and use of DEC.
5. Brief on the mechanism of action of naftifine.
6. Give an account on the applications of docking studies.
7. Write a short note on Folate reductase inhibitors.
8. Define malaria and write a note on the causative agents.
9. Write the synthesis of hexamine.
10. Give an account on prodrug design.
