

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

[BPHARM 1022]

**OCTOBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4271

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
FOURTH (FINAL) YEAR (Regulation 2009-2010)
PAPER V – MEDICINAL CHEMISTRY - II
*Q.P. Code : 564271***

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a. Write the structure synthesis and uses of: i) Nalidixic acid ii) Cycloserine.
b. Write notes on solid phase synthesis.
2. a. Discuss classification of antimalarials, history and development of Quinine Sulphate.
b. Write the synthesis of Chloroquine phosphate and Amodiaquine HCl.

II. Write notes on:

(8 x 5 = 40)

1. Give the classification of antibacterial agents.
2. Write notes on crystal urea.
3. Give the structure and uses of Amantadine HCl, Acyclovir, Sulphamethoxazole and Metronidazole.
4. Outline the relationship between oestrone, oestradiol and oestriol.
5. Write notes on insulin.
6. Write notes on antitubercular agents.
7. Write notes on Hammett constant.
8. Discuss about chemistry of penicillin.

III. Short answers on:

(10 x 2 = 20)

1. Give the structure and uses of dapsone.
2. Explain mechanism of alkylating agents.
3. Give the synthesis of INH.
4. Give the synthesis of isosorbide dinitrate.
5. Give the structure and uses of Cyclophosphamide.
6. Classify anticoagulants.
7. List any two antihypertensives with structure.
8. Write notes on anti thyroids.
9. Give the structure and uses of Clofibrate.
10. Write the mechanism of action of β -lactam antibiotics.
