

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

[B.PHARM 0524]

MAY 2024
(FEBRUARY 2024 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. Define Quantitative structure activity relationship. Classify the parameters involved and explain any one of them.
2. a) Define and classify anti-viral drugs.
b) Write the synthesis of acyclovir and Amantadine Hcl.

II. Write notes on:

(8 x 5 = 40)

1. Define and classify sulphaonamides.
2. Write about Insulin and its preparations.
3. Define and classify anti-cancer drugs with suitable examples.
4. Inter conversion of oestrogen.
5. Write the structure, synthesis and uses of Metronidazole.
6. Classify penicillins and also discuss its SAR.
7. Define and classify antihypertensives with suitable examples.
8. Write the synthesis of Amodiaquine hydrochloride.

III. Short answers on:

(10 x 2 = 20)

1. Write the synthesis of lindane.
2. Structure activity relationship of di hydro pyridines.
3. List out the sulfonyl ureas.
4. Write short note on anticoagulants.
5. Define combinatorial chemistry.
6. List out with the structures of resins used for solid phase synthesis.
7. Write note on anti-scabies.
8. Mechanism of action of alkylating agents.
9. Define Hammet constant.
10. Write note on calcium channel blockers.
