

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

[PHARMD 1023]

OCTOBER 2023

Sub. Code: 3817

PHARM. 'D' DEGREE EXAMINATION  
THIRD YEAR (2009-2010 Regulation)  
PAPER V – MEDICINAL CHEMISTRY

*Q.P. Code: 383817*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Write about antibiotics used in the treatment of malignant diseases.
2. Write the synthesis and mechanism of action of INH, 6-Mercapto purine, acyclovir and metronidazole.
3. Explain the chemistry and nomenclature of steroids. Write the mechanism of action and SAR of Adrenocorticoids.
4. Define and classify antiarrhythmic agents. Write the mechanism of action and synthesis of Procainamide hydrochloride.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write notes on osmotic diuretics.
2. Write notes on types and chemistry of insulin.
3. Write notes on antiretroviral agents.
4. Write about Neurohypophyseal Hormones.
5. Write notes on Crystalluria formation and combination therapy of sulphonamides.
6. Give the structure and uses of:  
(a) Fluorescein sodium      (b) Congo red      (c) Evans blue.

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