

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

(LR 4271)

DECEMBER 2020

Sub. Code: 4271

(AUGUST 2020 SESSION)

**B.PHARM. EXAMINATION**

**FOURTH YEAR**

**PAPER V – MEDICINAL CHEMISTRY - II**

*Q.P. Code : 564271*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Write the classification of Anti-neoplastic agents, its mechanism of action and write the synthesis and used of (a) Methotresate (b) Mercaptopurine (c) Cyclophosphamide.  
  
b) Write note on Semi-synthetic pencillin?.
2. Write the classification of Antihypertensive agents, its mechanism of action and write the synthesis and uses of (a) Hydralazine HCl (b) Methyldopate hydrochloride (c) Guanethidine monosulphate.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write the synthesis and uses of Miconazole and Tolnaftate?
2. Write the synthesis and uses of Cycloserine and Para amino salicylic acid?
3. Write a note on solid phase synthesis?
4. Write a note on oral contraceptives?
5. Classify the antimalarial agents and write the synthesis of Chloroquine?
6. Write the synthesis and uses of Nalidixic acid and Nitrofurantoin?
7. Classify Antiviral agents and write the synthesis of Acyclovir?
8. Classify Antiprotozoal agents its mechanism and write the synthesis of Diloxanide?

**III. Short answers on:**

**(10 x 2 = 20)**

1. Write the synthesis of Cisplatin?
2. Give the structure and use of crotamiton?
3. Define Anti-thrombolytics?
4. Write the structure and uses of Thiomersal?
5. Write the structure and uses of Dapsone?
6. Define cardiotonics with examples?
7. Write the structure and uses of Amodiaquine HCl?
8. Write any two acid resistant penicillins.
9. Define the term combinatorial chemistry?
10. Write the structure and uses of Fluorescein sodium?

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