

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

[BPHARM 0921]

SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 4271

B. PHARMACY DEGREE EXAMINATION
FOURTH (FINAL) YEAR – (NON-SEMESTER)
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) Explain the methods and application of combinational chemistry in detail.
b) Write notes on Computer aided drug design.
2. Classify anti-neoplastic drugs? Discuss the mechanism of action of alkylating agents. Write the synthesis of Methotrexate, Cyclophosphamide and Mercaptopurine.

II. Write notes on:

(8 x 5 = 40)

1. Write notes on Macrolide antibiotics?
2. Write the synthesis of Tolnaftate and Ketoconazole?
3. Classify Antiviral agents and write the synthesis of Amantadine HCl?
4. Write the classification of Sulphonamides and write the synthesis of Dapsone?
5. Write the synthesis of Thiabendazole and Piperazine salts?
6. Write a note on Antihyperlipidemic agents and synthesis of Guanethidine monosulphate.
7. Define and classify antitubercular agent and write the synthesis of INH.
8. Write the Synthesis of Hexachlorophene and Halazone.

III. Short answers on:

(10 x 2 = 20)

1. Write the synthesis of Isosorbide dinitrate?
2. Define Encoding?
3. Define diagnostic agents with example?
4. Define anti-scabies agent with example?
5. Write the structure and uses of Procainamide HCl?
6. What are Vasodilators? Give example.
7. Write a note on Cationic local anti-infective agents?
8. Write the structure of Ciprofloxacin and its uses?
9. What is crystalluria and give the methods used to reduce crystalluria?
10. Write the synthesis of Phenytoin and its use.
