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

[BPHARM 0522]

MAY 2022 (FEBRUARY 2022 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION FOURTH (FINAL) YEAR PAPER V – MEDICINAL CHEMISTRY - II

Q.P. Code: 564271

Time: Three hours Answer ALL questions Maximum: 100 Marks

I. Elaborate on: $(2 \times 20 = 40)$

1. a) Write notes on Topliss decision tree.

- b) Degradation products of Penicillin.
- 2. Write the synthesis and Medicinal uses of following.
 - a. Hexachlorophene.
 - b. Ketoconazole.
 - c. Thiabendazole.
 - d. Nalidixic acid.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Mechanism of action of sulphonamides.
- 2. Mechanism of action of anti metabolites.
- 3. Discuss about Anti Hypertensive agents.
- 4. Define combinatorial synthesis and explain about solid phase synthesis.
- 5. Mechanism of action of ACE inhibitors.
- 6. Write short note on Quantam mechanics and Molecular mechanics
- 7. Define and classify antifungals with suitable examples.
- 8. Write note on solution phase synthesis.

III. Short answers on:

 $(10 \times 2 = 20)$

Sub. Code: 4271

- 1. Write the synthesis and uses of Piperazine.
- 2. Write the synthesis and uses of Crotamiton.
- 3. Write the synthesis and uses of Nitroglycerine.
- 4. Write the synthesis and uses of Fluorescein sodium.
- 5. Mechanism of action of Acyclovir.
- 6. Vasodilators.
- 7. Define partition co-efficient.
- 8. β-lactum antibiotics.
- 9. Write the mechanism of action of macrolides.
- 10. HMG CoA reductase inhibitors.
