

### Section III

5. Discuss antipyretic agents in detail.
6. Write the synthesis of the following :
  - (i) Celecoxib
  - (ii) Diclofenac, and biosynthesis of eicosanoid.

### Section IV

7. Give recent advances of hormonal contraceptives in detail.
8. Discuss calcium channel blockers and synthesis of clonidine and diltiazem.

Roll No. ....

Total Pages : 02

**LMDQ/D-23**

**6541**

PHARMACEUTICAL CHEMISTRY  
SPECIAL-II  
CHEM-305

Time : Three Hours]

[Maximum Marks : 60

**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Section. All questions carry equal marks.

### Section I

1. Explain the general mode of action, medicinal uses and synthesis of Thiotepa and 6-mercaptopurine drugs.
2. Discuss antimalarial agents and mode of action of nucleoside reverse transcriptase inhibitors for AZT and ddC.

### Section II

3. Give synthesis, SAR, mechanism of action of sulphonamides.
4. Illustrate structure, mode of action, synthesis of azithromycin and ampicillin.