B. PHARM.

(SEM. VIII) EXAMINATION. 2006-07
PHARMACEUTICAL CHEMISTRY - VIII
(MEDICINAL CHEMISTRY - III)

Time : 3 Hours] [Total Marks : 80

Note : Answer all the questions. All questions carry equal marks.

1 Attempt any two parts of the following : \(10 \times 2 = 20\)
   (a) What are the different factors affecting QSAR study?
   (b) Discuss the molecular modelling methodologies and their capabilities.
   (c) Write on Hansch approach.

2 Answer any two of the following :
   (a) Enumerate the drug conjugation pathways and discuss glucuronic acid conjugation in detail.
   (b) How are drugs metabolized by hydrolysis and reduction process.
   (c) Write in short on prodrugs.

V-5065] 1 [Contd...
3 Answer any four part of the following:
   (a) Classify anticoagulants and write the synthesis and warfarin.
   (b) Discuss the SAR of calcium channel blockers (1,4-Dihydropyridines)
   (c) Give the synthesis, mode of action and uses of pentolamine.
   (d) Give the synthesis, uses and mode of action of propranolol
   (e) Write a short note on Iopanoic acid as Diagnostic agent.

4 Attempt any two part of the following:
   (a) Classify antithyroid drugs and discuss the mode of action of carbimazole.
   (b) Discuss the structure activity relationship and sulphonylureas.
       Give the synthesis of tolbutamide and nutforim.
   (c) Write mode of action and clinical application of propyl thio uracil, write about insulin.

5 (a) Give the synthesis uses and mode of action of Lamivudine and Zalcitabine.
    (b) What do you mean by prostaglandius. Give SAR of prostaglandiues.