



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 150607

Roll No.

--	--	--	--	--	--	--	--	--	--

B. Pharm.

(SEM. VI) THEORY EXAMINATION, 2014-15
PHARMACEUTICAL CHEMISTRY - VI
(MEDICINAL CHEMISTRY - II)

Time : 3 Hours]

[Total Marks : 80

1 Answer any two of the following: (8×2=16)

- Define pharmacophore and discuss the methods of discovery and optimization of pharmacophore.
- Define drug design. Discuss its role in computer aided drug design (CADD).
- Define QSAR. Discuss in detail about steric parameter s and Taft's steric parameter.

2 Answer any four of the following: (4×4=16)

- Write about chemistry and positive inotropic effect of cardiac glycosides.
- Discuss the chemical classification of Anti-Hypertensive drugs with suitable examples.

- c) Give the synthesis and SAR of β -adrenergic blockers.
- d) Give the synthesis and mechanism of action of Warfarin sodium.
- e) Write the SAR and synthesis of Nifedipine.

3 Answer any two of the following: (8×2=16)

- a) Give the chemical classification of H₁ Antagonist. Discuss in detail the SAR of H₁ Antagonist with suitable examples.
- b) Write the detailed synthesis and uses of Ranitidine and Famotidine.
- c) Give the synthesis and mechanism of action of any two:
 - i) Methotrexate
 - ii) 6-Mercaptopurine
 - iii) 5-Fluorouracil

4 Answer any four of the following : (4×4=16)

- a) Explain the SAR and mechanism of action of Sulfonamides.
- b) Discuss the synthesis and uses of Sulphomethoxazole and Nalidixic acid.
- c) Define NSAIDs and discuss the chemical classification with suitable examples.
- d) Discuss the synthesis and uses of Mefenamic acid and Diclofenac sodium.
- e) Discuss the mechanism of action of NSAIDs.

5 Answer any four of the following: (4×4=16)

- a) Discuss the mechanism of urine formation in a nephron.
 - b) Give the chemical classification and uses of diuretics with suitable examples.
 - c) Write a short note on High Ceiling Diuretics.
 - d) Write the mechanism of action of Potassium Sparing Diuretics.
 - e) Classify diagnostic aid. Give the synthesis of Iopanoic acid
-