Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.–6)

PHARMACEUTICAL CHEMISTRY-VI (MEDICINAL CHEMISTRY-I)

Subject Code : PHM-361

Paper ID : [D0171]

Time : 3 Hrs. Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.**

SECTION-A

1. Write briefly :

a) Classical bioisosterism.

b) Role of ionic interactions in drug action.

c) Random screening.

d) Lead identification.

e) Biochemical role of Niacin.

f) β_1 –Adrenergic receptors.

g) Nicotinic receptors.

h) Antispasmodic.

i) Prostacyclin.

j) COX-1 isoforms.

k) Preferential COX-2 inhibitors.

l) Salbutamol.

m) H_2 blocker.

n) Structure and uses of succinylcholine chloride.

o) Structure of Prostanoic acid.

SECTION-B

2. Explain physicochemical aspects of drugs in relation to biological activity.

3. Name conventional methods of drug design. Describe any one.

4. Give structures of fat soluble vitamins. Discuss biochemical role of vitamin-D.

5. Give synthesis and mechanism of action of Dicyclomine Hydrochloride.

6. Give outline for biosynthesis of Prostaglandins.

SECTION-C

7. Discuss SAR of Arylalkanoic acid class of NSAIDs. Give synthesis MOA of Indomethacin.

8. Discuss detailed SAR of Cholinomimetics. Give synthesis and important uses of Neostigmine.

9. Describe biosynthesis, storage and release of Catecholamines.

10. Write detailed note on antiparkinsonism drugs.