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# B.Pharma (2011 to 2016) (Sem.-6) <br> PHARMACEUTICAL CHEMISTRY-VI <br> (Medicinal Chemistry-I) <br> Subject Code : BPHM-601 <br> M.Code : 71033 

Time: 3 Hrs.
Max. Marks : 80

## INSTRUCTION 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. Answer briefly :
a) Non-classical bioisosterism
b) Lead optimization
c) Nicotinic action of Acetylcholine
d) Enzymes involved in the metabolism of Catecholamines
e) Oxicam
f) F-type prostaglandins
g) Parkinsonism
h) Thromboxane
i) Structure of histamine
j) $\mathrm{H}_{2}$-receptor
k) Role of nicotinamide
1) Biotin
m) Calciferol
n) Conformational isomers of Acetylcholine
o) Serendipitous way of drug designing.

## SECTION-B

2) Comment on storage and release of Acetylcholine hydrochloride.
3) What are antispasmodics? Give synthesis and mode of action of Dicyclomine hydrochloride.
4) Give synthesis, mode of action and uses of Gallamine triethiodide.
5) Give synthesis, mode of action and uses of Pyrodigostigmine
6) Name water soluble vitamins. Discuss chemistry of vitamin C.

## SECTION-C

7) Describe factors affecting drug receptor interactions.
8) Discuss general SAR of $\mathrm{H}_{1}$ receptor antagonist.
9) Describe conjunction and disjunction methods of drug designing by citing at least one example of each.
10) Discuss SAR of 3,5-Pyrazolidinedione derivatives for their anti-inflammatory activity. Give synthesis, mode of action of phenylhydrazone.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.

