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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-6)
PHARMACEUTICAL CHEMISTRY-VI
(Medicinal Chemistry-I)
Subject Code : BPHM-601
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) Oxidant
- f) F-type prostaglandins
- g) Parkinsonism
- h) Thromboxane
- i) Structure of histamine
- j) H₂-receptor
- k) Role of nicotinamide



- l) 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 Pyridostigmine
- 6) Name water soluble vitamins. Discuss chemistry of vitamin C.

SECTION-C

- 7) Describe factors affecting drug receptor interactions.
- 8) Discuss general SAR of 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 phenylhydrazones.

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.