

Roll No. 

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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) Oxicam
- f) F-type prostaglandins
- g) Parkinsonism
- h) Thromboxane
- i) Structure of histamine
- j) H<sub>2</sub>-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<sub>1</sub> 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 phenylhydrazine.

**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.**