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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 Paper ID : [A2264]

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. Give chemical structure and name of any one H₁ receptor antagonist.
- b. What is riboflavine? What is its importance?
- c. Give structure of a drug where stereochemistry changes biological activity.
- d. Give the structures of two adrenergic neurotransmitters.
- e. What are organophosphates? Give their general structure.
- f. Name four direct acting cholinergic agents.
- g. Give chemical structure of anticholinergics from natural sources.
- h. What are anticoagulants? Give examples.
- i. Give the chemical structure of one prostaglandin used as uterine stimulant.
- j. Name the enzymes for metabolism of norepinephrine. What is its primary metabolite?
- k. What are the various classes of antiparkinsonian drugs?
- 1. Give chemical structure of acetylcholine. What is its disadvantage for use in therapy?
- m. Give the structure of a β_2 selective adrenergic agent with its use.



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- What is logP? How does it affect biological activity of drugs? n.
- Classify eicosanoids. 0

SECTION-B

- 2. Give the chemical structure, chemical name, therapeutic uses, mechanism of action and synthesis of salbutamol.
- Discuss NSAIDs from the class of propionic acid derivatives. 3.
- Discuss structure activity relationships of H₂ receptor antagonists. 4.
- Discuss the biosynthesis, release and metabolism of acetylcholine. 5.
- Give the nomenclature, uses and mechanism of action of tropane alkaloids. 6.

SECTION-C

- 7. What are sympathomimetics? Discuss giving relevant examples, the structural features of sympathomimetic agents contributing towards their potency and receptor selectivity.
- What are anticholinesterases? What is their mechanism of action? Give an account of the 8. chemistry of reversible anticholinesterases used in therapy.
- 9. Give chemical structure, chemical name and uses of the following : WWW.FirstR
 - a. Chlorpheniramine
 - b. Indomethacin
 - c. Isoprenaline
 - d. Dicyclomine
- 10. Discuss the chemistry of any one synthetic class of antimuscarinic agents with relevant examples.