Roll No.: _____ Enrolment No._____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY

B. PHARM FOURTH SEMESTER

SECOND INTERNAL THEORY EXAMINATION: 2020-21

Subject Name: Medicinal Chemistry-I
Subject Code: BP402T **Date: 09/03/2021**
Time: 10:00 am–11:15am **Total Marks: 30**

Q.1 Multiple Choice Questions: **[10]**

(1) Which one of the following is cholinesterase reactivator drug? **01**

(a) Pralidoxime
(b) Pilocarpine
(c) Pyridostigmine
(d) Parathione

(2) A β-substitution on choline moiety in parasympathomimetic agent exhibits, **01**

(a) Less muscarinic than nicotinic activity
(b) Equal muscarinic and nicotinic activity
(c) More muscarinic than nicotinic activity
(d) No effect of any substituent

(3) One of the following drugs is used in treatment of organophosphorous poisoning. **01**

(a) Acetylcholine
(b) Atropine
(c) Homatropine
(d) Benzatropine

(4) Which of the following anti-cholinergic drug DOES NOT have quaternary ammonium group in its structure? **01**

(a) Clidinium
(b) Methantheline
(c) Glycopyrrolate
(d) Dicyclomine

(5) **Which one of the following is synthetic amino alcohol anti-cholinergic drug?** 01

(a) Procyclidine
(b) Tropicamide
(c) Cyclopentolate
(d) Orphenadrine

(6) **Find out the true statement** 01

(a) Levallorphan is benzomorphan analogue and narcotic antagonist containing N-methyl substitution
(b) Levorphanol is morphinan analogue and narcotic antagonist containing N-methyl substitution
(c) Levallorphan is morphinan analogue and narcotic antagonist containing N-propenyl substitution
(d) Levorphanol is morphinan analogue and narcotic agonist containing N-propenyl substitution

(7) **Which one of the following is intravenous anesthetic used as ultra-short acting barbiturate?** 01

(a) Ketamine sodium
(b) Thiopental sodium
(c) Halothane
(d) Isoflurane

(8) **Which drug is metabolized by oxidation of olefinic carbon-carbon double bonds?** 01

(a) Phenytoin
(b) Metoprolol
(c) Diazepam
(d) Carbamazepine

(9) **Which of following conjugative Phase-II reaction does NOT require initial formation of activated coenzyme or substrate?** 01

(a) Glutathione conjugation
(b) Glutamine conjugation
(c) Sulfate conjugation
(d) Glucuronic acid conjugation

(10) **Imipramine is biotransformed principally by,** 01

(a) N-oxide formation
(b) Oxidative Deamination
(c) Oxidative N-dealkylation
(d) N-hydroxylation

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Instructions:
1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.2 Long Answers:(Any One)

(1) (A) Define and classifyparasympatholytic agents. **10**

(B) Write synthesisof (a) Carbachol (b) Neostigmine

(2) (A) Write SAR of parasympatholytic agents. **10**

(B) Give classification of parasympathomimetic agents.

Q.3 Short Answers:(Any Two)

(1) Write a note on Phase-I oxidation reactions with examples. **OR** Write a note on Phase-II reactions with examples. **05**

(2) Give classification of Anti-inflammatory agents. Write synthesis and therapeutic class of Methohexital sodium. **05**

(3) Write classification of Narcotic agonists. **OR** Write classification of Narcotic antagonists and explain SAR of Morphine. **05**

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