

C U SHAH UNIVERSITY

WADHWAN CITY

SUMMER EXAMINATION-2015

B. Pharm Semester-IV

Branch: Faculty of Pharmaceutical Sciences

Semester: IV

Subject Code: 4PS04COL1

Subject Name: Pharmacology-I

SECTION-I		
Q. 1	Define the following terms	
(a)	Partial Agonist	01
(b)	Antagonist	01
(c)	Synergism	01
(d)	Receptor	01
(e)	Drug Tolerance	01
(f)	Pharmacokinetics	01
(g)	Toxicology	01
Q. 2		
(a)	Differentiate competitive and non-competitive antagonism	05
(b)	Describe various factors affecting absorption of drug	05
(c)	Write a short note on Plasma protein binding	04
	OR	
Q. 2		
(a)	Explain Dale`s vasomotor reversal phenomenon	05
(b)	Write a short note on organophosphorous poisoning	05
(c)	Describe in detail about ganglion blockers	04
Q. 3		
(a)	Classify receptors. Write a short note on Cytosolic receptors.	05
(b)	Enumerate various reactions involved in metabolism. Write a short note on microsomal enzyme induction.	05
(c)	Write a short note on Blood brain barrier	04
	OR	
Q. 3		
(a)	Write a short note on neurohumoral transmission.	05
(b)	Write a short note on drugs acting on autonomic ganglia.	05
(c)	Write a short note on atropine poisoning	04
SECTION-II		
Q. 4	Answer the following terms	
(a)	Teratogenicity	02
(b)	Pharmacodynamics	01
(c)	Bioavailability	02
(d)	First pass metabolism	02
Q. 5		

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(a)	Write pharmacological actions of histamine.	05
(b)	Describe pathophysiological role of prostaglandins	05
(c)	Describe pharmacology of angiotensin.	04
OR		
Q. 5		
(a)	Write a short note on receptor occupation theory	05
(b)	Enumerate routes of drug administration. Give the merits and demerits of intravenous route of drug administration	05
(c)	Define biotransformation. Explain various factors affecting biotransformation of drugs.	04
OR		
Q. 6		
(a)	Explain various types of animal toxicity studies.	05
(b)	Explain signal transduction mechanisms of G-protein coupled receptors.	05
(c)	Explain various methods used to prolong the duration of action of drug.	04
OR		
Q. 6		
(a)	Classify muscarinic and nicotinic receptors with subtypes and explain pharmacological action of Acetylcholine.	05
(b)	Write a short note on clinical trial	05
(c)	Define drug and explain different sources of drugs.	04