04-06-19

Total No. of printed pages = 6

BP 402T

BINA CHOWDHURY CENTRAL LIBRARY (GIMT & GIPS)

Azara, Hatkhowapara,

Roll No. of candidate

Guwahati -781017

2019

B.Pharm. 4th Semester End-Term Examination MEDICINAL CHEMISTRY I - THEORY

New Regulation (w.e.f. 2017-2018)

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

1. Answer ALL questions.

 $(20 \times 1 = 20)$

- (i) Most of the basic drugs bind with
 - (a) Albumin
 - (b) Apha-acid glycoprotein
 - (c) Globulin
 - . (d) Lipoprotein
- (ii) The chelate used in mercury poisoning is
 - (a) Penicillamine
 - (b) Dimercaprol
 - (c) EDTA
 - (d) None

(111)	Barbiturates are enzyme
	(a) Inducer
	(b) Inhibitor
	(c) Both (a) and (b)
	(d) None of the above
(iv)	The precursor for the synthesis of adrenaline
	is
	(a) Tryptophan
	(b) Histidine
# # #	(c) Tyrosine
	(d) Choline
(v)	The effect of α blocker results in ———
	of blood vessels.
	(a) Contraction
	(b) Dilation
	(c) No effect
	(d) None of the above
(vi)	Which of the following is a Phenylpropanolamine derivative?
	(a) Ephedrine
	(b) Amphetamine
	(c) Dobutamine
	(d) Tolazoline
(vii)	Tizanidine is an — agonist.
	(a) α_1
	(b) α_2
	(c) α ₃
	(d) Both (b) and (c)
BP 402T	2

(VIII)	Wh	ich of the following is a β_3 agonist?	
	(a)	Formoterol	
	(b)	Mirabegron	
	(c)	Guanahenz	
100	(d)	Methoxamine	
(ix)	ix) Phentolamine is a — adrene antagonist.		
	(a)	Non-selective reversible	
	(b)	Selective irreversible	
	(c)	Non-selective irreversible	
	(d)	Mixed acting	
(x)	Which of the following chemical agent inhibit the transport of choline from cytoplasm to neu		
	(a)	Hexamethonium	
	(b)	Hemicholinium .	
	(c)	Vesamicol BINA CHOWDHURY CENTRAL LIBRARY (GIMT & GIPS)	
	(d)	Tubocurarine Azara, Hatkhowapara, Guwahan -781017	
(xi)	Para	sympathomimmetic agents mimic the	
	(a)	Adrenaline	
	(b)	Acetylcholine	
	(c)	Histamine	
	(d)	Serotonin	
(xii)	Piloc	earpine is a ———— agent.	
	(a)	Directly acting	
	(b)	Indirectly acting	
504 8 5	(c)	Cholinesterase reactivator	
	(d)	Cholinergic blocking	
402T		3 [Turn over	
		L-71-1-71-71	

BP

(xiii)	Thiopental sodium is — acting barbiturate.
	(a) Short
	(b) Intermediate
	(c) Long
	(d) Ultra-short
(xiv)	Which of the following is an alcohol derivative?
	(a) Paraldehyde
	(b) Meprobamate
	(c) Triclofos sodium
	(d) Glutethimide
(xv)	Which of the following neurotransmitter's increase level causes psychosis?
	(a) Dopamine
	(b) Serotonin
	(c) Nor-adrenaline
	(d) All of the above
(xvi)	Drug of choice for absence seizure is
	(a) Ethosuximide
	(b) Phenytoin
	(c) Phenacemide
	(d) Sulpieride
(xvii)	Sulpieride belongs to — class of drugs.
	(a) Imides
	(b) Benzamides
	(c) Aldehyde
	(d) Alcohol

c		
f		
t_		
Ž		
Alkaloids as cholinergic blocker		

(i)

2.

- (a) What are analgesics? Classify narcotic and non-narcotic analgesics. Write the structure and synthesis of Mefenamic acid and Ibuprofen. (1+3+3+3=10)
- (b) Explain the Phase I and Phase II process of drug metabolism. Write the factors affecting drug metabolism. (6+4=10)
- (c) Define sedatives and hypnotics. Classify them and write the synthesis of Diazepam and Barbital. (2+3+2.5+2.5=10)

BINA CHOWDHURY CENTRAL LIBRARY
(GIMT & GIPS)
Azara, Hatkhowapara,
Guwahati -781017