BP 402 T

Roll No. of candidate

23/88/22 BINA CHOWDHURY CENTRAL LIBRAKA (CHMT & SIPS) ADELE Hatkinswapara, .waha: 78:017

2021

B.Pharm 4th Semester (Repeater) Examination

MEDICINAL CHEMISTRY-I (THEORY)

(New Regulation)

Full Marks - 75

Time - Three hours

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

Ι. Answer the following MCQs:

 $(20 \times 1 = 20)$

- Which of the following is an aryl acetic acid derivative? 1.
 - Aceclofenac (a)
 - Sulindac (b)
 - (c) Nabumetone
 - (d) Naproxen
 - (ii) Which of the following drug undergoes metabolism via glutathione conjugation?
 - Sulphonamides (a)
 - (b) Ethacrynic acid
 - (c) Glycine
 - Hydralazine
 - (iii) Which of the following is the drug of choice in mushroom poisoning?
 - Atropine (a)
 - Hyoscine (b)
 - Meprobamate (c)
 - Both (b) and (c)
 - (iv) Only anticholinergic given in the form of inhalation is:
 - Propantheline (a)
 - (b) Ipratropium bromide
 - Tropicamide (c)
 - Telenzepine (d)

[Turn over

(v)	The	precursor molecule of adrenal	ine is:		
	(a)	Phenylalanine			
N. T.	(b)	Arginine			
	(c)	Aspartame			
	(d)	Tryptophan			
(vi)	Whi	ich of the following is α_2 select	ive ar	ntagonist?	
	(a)	Prazosin			
77	(b)	Yohimbine			
8	(c)	Terazosin			
	(d)	Phentolamine			
(vii)	Wh	ich of the following adrenergic	drug	is not used as uterine relaxan	-
	(a)	Mazindol			
	(b)	Ritodrine		state in the second	
	(c)	Salbutamol			
	(d)	Terbutaline			
(viii) Wh	ich of the following is a dopam	ine ag	gonist?	
	(a)	Benserazide			
	(b)	Ropinirole			
	(c)	Bromocriptine			
	(d)	Both (b) and (c)		Manufall into the disease	
(ix)	Mo	st of the antipsychotics block -	V	receptor	
	(a)	D_1	(b)	$\mathbf{D_2}$	
	(c)	D ₃			
(x)		is a combined CO	OX-LC	OX inhibitor.	
	(a)	Dazoxiben		The state of the s	
	(b)	Licofelone		to a second of the first of the	
	(c)	Daltroban			
	- (d)	None of the above			
(xi)	Wh	nich of the following is an ultra	short	The second secon	
	(a)	Thiopental	(b)		
	(c)	Phenobarbitone	(d)		
(xii)	Th	e drug of choice in trigeminal 1	neura		
	(a)	Carbamazepine	(b)	The state of the s	
	(c)	Both (a) and (b)	(d)	Trimethadione	

(xiii)	Whi	ch of the following is the shortest acting opioid analgesic?
()	(a)	Alfentanil
	(b)	Diphenoxylate
	(c)	Hydrocodone.
	(d)	Codeine
(xiv)		ch of the following is the drug of choice in Gilles-de-la Tourett drome?
	(a)	Thioridazine
	(b)	Chlorpromazine
	(c)	Haloperidol
45	(d)	Promazine
(xv)	_	is the benzodiazepine with longest half life,
	(a)	Flurazepam
	(b)	Midazolam
	(c)	Triazolam
	(d)	Temazepam
(xvi) Wh	ich of the following is specific benzodiazepine receptor antagonist?
	(a)	Flumazenil
	(b)	Zopiclone
	(c)	Buspirone
	(d)	Zolpidem
(xvi	i)Wh	ich of the following anti-epileptic drug inhibits T type Ca ²⁺ current?
	(a)	Ethoximide
	(b)	Valproate
	(c)	Zonisamide
	(d)	All of the above
(xvi	ii)Ba	ttler's syndrome can be effectively treated with
	(a)	Indomethacin
	(b)	Sulindac
	(c)	Naproxen

(d) Nabumetone

	(xix) Which of the following NSAIDS is mainly given to reduce the pain against menstrual women?					
	(a) Mefenamic acid					
	(b) Nabumetone					
	(c) Phenylbutazone					
	(d) Sulindac					
	(xx) Which of the following antipsychotics cause least extrapyrimidal side-effect?					
	(a) Clozapine					
	(b) Thioridazine					
	(c) Trifluperazine					
	(d) Flupenthixol					
П.	Attempt short answers (Answer any seven): $(7 \times 5 = 35)$					
2. Explain ionization and protein binding in relation to biological action.						
3.	What are the factors affecting drug metabolism?					
4.	Distinguish between Sympathetic and parasympathetic nervous system.					
5.	Classify sympathomimmetic agents.					
6.	Write a note on distribution of adrenergic receptors.					
7.	Write the SAR of parasympathomimmetic agents.					
8.	What are the stages of anesthesia?					
9.	Give the MOA of anti-epileptic agents.					
10.	Write the synthesis of Carbamazepine and Diazepam.					
III.	Attempt long answers (Answer any two): $(2 \times 10 = 20)$					
11.	Discuss phase I and phase II metabolism with reactions.					
12.	Classify NSAIDs and draw some of its structure.					
13.	Explain the biosynthesis and metabolism of adrenaline with chemical reactions.					

II.

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