(c) Glycine

BP 402 T				Girijananda Chowdhury Univer Hatkhowapara Azara, Ghy-1			
Roll	Roll No. of candidate 2023						
	B.Pharm. 4th Semester End-Term Examination						
			MEDICINAL CH	IEMI	STRY-I		
Full	Marl	ks – 7	5		Time - Three hours		
		Th	e figures in the margin indica	te full	marks for the questions.		
1.	1. Answer the following (MCQs):				$(20 \times 1 = 20)$		
	(i)	Mos	t drugs are absorbed from t	he ga	strointestinal tract by a process of		
		(a)	Active diffusion	(b)	Ion-pair transport		
		(c)	Passive diffusion	(d)	Both (b) and (c)		
	(ii)	Which of the following drug undergoes metabolism by acetylation?					
		(a)	Dapsone	(b)	Hydralazine		
		(c)	Isoniazid	(d)	All of the above		
	(iii)		ch of the following chemical axon?	agent/	agents inhibit the uptake of choline		
		(a)	Cocaine	(b)	Tricyclic antidepressants		
		(c)	Vesamicol	(d)	Hemicholinium		
	(iv)		ch of the following amino ynthesis of adrenaline?	acid	is the starting material for the		
		(a)	Tyrosine	(b)	Alanine		

(d) Tryptophan

(v)	Naphazoline contains		heterocyclic ring		
	(a) Indole	(b)	Imidazole		
	(c) Furan	(d)	Pyrazole		
(vi)	Which of the following antich medication?	olinergi	c drug is used for pre anaesthetic		
	(a) Pirenzepine	(b)	Glycopyrrolate		
	(c) Oxybutynin	(d)	Propantheline		
(vii	Which of the following is not a cardioselective (β1) blocker?				
	(a) Labetalol	(b)	Celiprolol		
	(c) Esmolo	(d)	Atenolol		
(viii) Chemically Catechel is					
	(a) 1,3 – dihydrony benzene				
	(b) 3,4 – dihydrony benzene				
	(c) 1,4 - dihydrony benzene				
	(d) None of the above				
(ix)	Condensation of malonic acid	land	urea leads to the formation of		
	(a) Barbituric acid	(b)	Barbital		
	(c) Barbitone	(d)	None of the above		
(x) Which of the following is a competitive antagonist at GABAA receptor					
	(a) Bicuculline	(b)	Muscimol		
	(c) Reserpine	(d)	β-carboline		
(xi)	Which of the following increase GABA?	s the d	uration of Cl- channel opening in		
	(a) Barbiturates	(b)	Benzodiazepines		
	(c) Cholinergics	(d)	Neuroleptics		

	(xii) Wha	at does COMT stands for _	Bina Chowdhury Central Library				
	(a)	Catechel - O - Methyl tra	Girijananda Chowdhury University Hatkhowapara Azara, Ghy-17				
	(b)	Catechel – Oxy – Methyl transferase					
	(c)	Catechoanine-Oxy methyl transferase					
	(d)	None of the above					
	(xiii) Which of the following in selective an antagonitst						
	(a)	Preycosin	(b)	Yohimbin			
	(c)	Salkulamel	(d)	None of the above			
	(xiv)	is an example	e of heter	ocyclic class of antipsychotics.			
	(a)	Pimozide	(b)	Loxapine			
	(c)	Zonisamide	(d)	Both (a) and (b)			
	(xv) α-hydroxy benzyl alcohol is the starting material for the synthesis of						
	(a)	Esmolol	(b)	Salbutamol			
	(c)	Timolol	(d)	Atenolol			
	(xvi) Which of the following is not an ultra short acting barbiturates?						
	(a)	Thiopental sodium	(b)	Methohexital sodium			
	(c)	Thiamylal sodium	(d)	Amylobarbital sodium			
	(xvii) Which of the following doesn't contain phenanthrene nucleus?						
	(a)	Papaverine	(b)	Codeine			
	(c)	Thebaine	(d)	Heroin			
	(xviii) Which of the following drug is/are synthetic opioids?						
	(a)	Meperidine	(b)	Fentanyl			
	(c)	Tramdol	(d)	All of the above			
	(xix) Asp	oirin at higher dose has		action			
	(a)	Anticoagulan	(b)	Antiplatelet			
	(c)	Vasicoselective	(d)	Spasmolytic			
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	(xx) Which of the following NSAIDs is/are aryipropionic acid class:							
ard.		(a)	Ibuprofen		(b)	Aceclofenae		
		(c)	Diclofenac		(d)	Acetaminophen		
2.	Atter	mpt s	hort answers (any	y seven):			$(7 \times 5 = 35)$	
	(a)	Writ	te a note on SAR	of β-blockers.				
	(b)	Explain the catabolism of adrenaline & nor-adrenaline with chemical reactions involved.						
	(c)	Classify anticholinergics with some structures.						
	(d)	Explain the mechanism of action of some anticonvulsants.						
	(e)	Enlist some drugs that bind to various plasma proteins.						
	(f)	What are the stages of anaesthesia?						
	(g)	Write a note on the uses of adrenergic drugs.						
	(h)	Distinguish between Barbiturates and Benzodiazepines.						
	(i)	Write the synthesis of Carbamazepine and Ibuprofen.						
3.	Attempt long answer (any two): $(2 \times 10 = 20)$						$(2 \times 10 = 20)$	
	(a)		te the synthesis ortance and me			nethordone hydrechlocts.	onide. Give their $(5 + 5 = 10)$	
	(b)	Exp	lain phase II me	etabolism with	chem	ical reactions.	(10)	
	(c)	Distinguish between Sympathetic and Parasympathetic divisions of ANS. Give an example of sympatholytics and parasympatholytics. $(5 + 5 = 10)$						