Total No. of printed pages = 4

BP	501	T							
Roll	No.	of ca	ndidate	202	22	BINAC	HOWDHURY CENTRAL LIBRARY 2 (GIMT & GIPS) Azara, Hatkhowapara, Guwahati -781017		
			B.Pharm.	5 th Semester I	End-T	Term Exam	ination		
			70 (100	Pharm	nacy		wall off off		
				Medicinal Ch	nemis	stry – II	Internet St.		
				The					
				(New Reg	gulati	ion)			
Full	Mar	ks –	75				Time - Three hours		
1.		tiple	he figures in the Choice Questi all questions.)		ite ful	l marks for	the questions. $(20 \times 1 = 20)$		
	(i)		ntify the struct						
				HN CH3		V-CEN			
				No	N N	H_CH3			
		(a)	Ranitidine		(b)	Cimetidine	3		
		(c)	Famotidine	5.2	(d)	Roxatidine			
	(ii)	Ren	in is secreted f	from —	-				
		(a)	Juxtaglomer	ular apparatus	(b)	PCT			
		(c)	DCT		(d)	Collective	Ductus		
	(iii)	The process of spreading of cancer is termed as —							
		(a)	Delocalizatio	n	(b)	Carinogen	esis		
		(c)	Metastasis		(d)	Mutagenes	sis		
	(iv)	Which one of the following is not an adverse effect of ACE inhibitor?							
	V.	(a)	Cough		(b)	Hypokaler	nia		

(d)

Skin rash

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Angioneurotic edema

(c)

	(v)		ich of the following drugs is ient?	best f	or reducing proteinuria in a diabetic
		(a)	Metoprolol	(b)	Perindopril
		(c)	Chlorthiazide	(d)	Clonidine
	(vi)	Wh	ich of these is not an antimeta	abolite	?
		(a)	Mercaptopurine	(b)	Fluorouracil
		(c)	Dactinomycin	(d)	None of these
	(vii)		ton pump inhibitors like O wing ring system	mepra	zole and Lansoprazold contain the
		(a)	Pyridine	(b)	Benzimidazole
Total e		(c)	Benzthiazole	(d)	Oxindole
	(viii)) Ang	riotensin II causes all except	ě	
		(a)	Stimulates release of ADH	(b)	Increases thirst
		(c)	Vasodilation	(d)	Stimulates aldosterone release
- N.	(ix)	Aml	odipine, Nifedipine belongs to	the c	ategory of ———.
		(a)	1,3-Dihydropyridine	(b)	1,5-Dihydropyridine
В		(c)	1,2-Dihydropyridine	(d)	1,4-Dihydropyridine
48	(x)	Met	himazole is a		
		(a)	Antidiabetic drug	(b)	Antithyroid drug
		(c)	Antiangina drug	(d)	None of the above
	(xi)	Hete	erocyclic ring present in Furo	semide	e is
		(a)	Pyridine	(b)	Furan
		(c)	Pyrimidine	(d)	Thiophene
	(xii)	Whi Acid		ne rec	ceptors increases release of Gastric
		(a)	H1 receptor	(b)	H2 receptor
BP 5	01 T	(c)	H3 receptor	(d)	H4 receptor
TIT O	OT I		2	4	

(xiii) The	e mechanism of action of cardia	ic glyc	coside is
(a)	Activates adenyl cyclase		
(b)	Stimulates guanyl cyclase		
(c)	Inhibits Na+/K+ ATPase enz	yme	
(d)	Increase level of cyclic AMP		
(xiv) Tad	alafil is a ———.		
(a)	PDE ₅ - Inducer	-X	
(b)	PDE ₅ - Inhibitor		
(c)	Calcium channel blocker		
(d)	Potassium channel opener		
21	he SAR of Progesterone, intro- reases activity.	ductio	on of group at 21 position
(a)	Amine	(b)	Carbonyl
(c)	Amide	(d)	Fluoro
(xvi) —	is an example of alky	ylatin	g agent
(a)	Cyclophosphamide	(b)	Cytarabin
(c)	5- Flurouracil	(d)	Methotrexate
(xvii)Dise	opyramide is synthesized from		
(a)	1,4 — nitrobenzoic acid	(b)	2,6 — dimethylbeazene amine
(c)	2,6 — dimethyl aniline	(d)	Phenylacetonitrile
(xviii)Lid	locaine works by blocking		
(a)	Potassium channels	(b)	Sodium channels
(c)	Calcium channels	(d)	All of the above
	esence of which chain in H1 vity.	antil	histaminics drugs can decrease th
(a)	Ethylene chain	(b)	Methylene chain
(c)	Branched chain	(d)	None of the above

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The above structure is

(a) Omeprazole

(b) Lansoprazole

(c) Pantoprazole

(d) Rabeprazole

2. Answer any seven questions.

 $(7 \times 5 = 35)$

- (a) What are coagulants and anticoagulants? Write the synthesis of warfarin.
- (b) Outline the synthesis of Mercaptopurine and Meclorethamine.
- (c) What are loop diuretics? Give two examples. Explain the mechanism of action of loop diuretics. (1+1+3)
- (d) Describe the nomenclature and stereochemistry of steroids.
- (e) Explain in detail about histamine receptors and their biological importance.
- (f) Give an account on SAR of Local Anaesthetic agents.
- (g) Define the term hypoglycemic agents. Outline the synthesis of Tolbutamide. (2 + 3)
- (h) Classify Anti anginal drugs with suitable examples.
- (i) Write a note on drugs used in Congestive Heart Failure.
- 3. Answer the following questions: (any two)

 $(2 \times 10 = 20)$

- (a) Define and classify antihistaminic agents with suitable examples and explain the synthesis of diphenhydramine HCl. (5 + 5)
- (b) Define and Classify antihypertensive agents? Explain the MOA of Angiotensin Receptor Blockers. Write the synthesis of Methyl Dopa. (5+2+3)
- (c) What are steroids? Write the structure and uses of
 - (i) Mifepristone
 - (ii) Prednisolone
 - (iii) Testosterone
 - (iv) Sildenafil
 - (v) Nandralone.

(2 + 8)

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