Faculty of Pharmacy

B.Pharm. Semester—VI (New) Examination MEDICINAL CHEMISTRY—I*

Paper-BP601T

Time: Three Hours]		[Maximum Marks: 7.

		,	INSTRUCTIONS TO C.	ANDID	ATES					
	(1)									
	(2)	Diag	Diagrams and Chemical equations should be given wherever necessary.							
	(3)	Disc	cuss the reaction, mechanism wherever r	3.						
1. (A)	(A)	MCQ:			3 50 10 40					
		(1)	β-lactum ring fused to oxazolidine gives –							
			(A) Clavulanic acid	(B)	Carbepenems					
			(C) Cephalosporines	(D)	Sulbactums					
		(2)	Tetracycline is avoided during pregnan	use –						
			(A) Teratogenic effect	(B)	Cause discoloration of teeth					
			(C) Cause abortion	(D)	Affect bone growth of foetus					
		(3)	Which of the following is Antiviral Age	ent?						
			(A) Diclofenac	(B)	Methyl Salicylate					
			(C) Ibuprofen	(D)	Amantidine					
		(4)	Which of the following sulphonamides is used topically?							
			(A) Sulphamethoxzole	(B)	Sulphadoxine					
			(C) Silver Sulfadiazine	(D)	Dapsone					
		<u>(5)</u>	is salicylic acid derivative.							
			(A) Praziquantel	(B)	Stibophen					
			(C) Niclosamide	(D)	None of the above					
	(6)	se Nephrotoxicity.								
			(A) Cisplatin	(B)	Kanamycin					
			(C) Isoniazide		Streptozocin					
		(7)	Proguanil is a prodrug and has an acti	ve meta	bolite as					
			(A) Bicycloguanil	(B)	Guanil					
			(C) (A) and (B)		Cycloguanil					
		(8) is having antiamoebic and antiviral action.								
		-í,	(A) Diloxanide	(B)	Nitroimidazoles					
			(C) Eflomithine	(<u>D</u>)	None of the above					

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		(9)	Arte	misinin derivatives have their acti	vity beca	use of	
			(A)	Peroxide bridge	(B)	Endonucleoside bridge	
			(C)	Endoperoxide bridge	(D)	Exoperoxide bridge	
		(10)	Prop	phylaxis and treatment of influenza	a infectio	n is given by	
			(A)	Acyclovir	(B)	Vidarabine	
		4.	(C)	Amantadine	(D)	None of the above	10
	(B)	Sol	e the	following:			
		(1)	Wha	at is difference between Penicillin	and Cepl	halosporin?	
		(2)	Wri	te application of Neomycin.		.	
7)		(3)	Wri	te chemical degradation of monob	actams.		
•		(4)	Wha	at is the pharmacophore? Write in	n brief.	**************************************	
		(5)	Wri	te the chemical structure of Clotrir	nazole ai	nd Metronidazole.	10
2.	Solv	lve the following any two:					
i)	(1)	What are antibiotics ? Classify the antibiotics and write mechanism of action of β -lactan antibiotics.					
	(2)	Classify the Sulphonamides and Sulfones, write SAR and mechanism of action.					
	(3)	Clas	ssify	the anti-tubercular agents, write \$	AR and s	synthesis of Isoniazid.	20
3.	3. Solve the following- any seven :						
	(1)	Wri	te SA	AR of Tetracyclines.			
	(2)	Wri	te syr	nthesis of chloroquine.			
	(3)	Write about anti-tubercular antibiotics.					
	(4)	Classify the antiviral drug and give synthesis of Acyclovir.					
)	(5)	Wri	te the	SAR of Ciprofloxacin.			
	(6)	Clas	ssify t	he Antihelminthics.			
	(7)	Wh	at is p	prodrug and give its application?			
	(8)	Clas	ssify a	antimalarials, write SAR of pamaq	uine.		
	(9)	Wri	te abo	out Hansch analysis.			35

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