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SARDAR PATEL UNIVERSITY

M.Sc. (Integrated) Biotechnology (IGMBT), Eight Semester Examination Tuesday, 28th April 2015 2:30 p.m. to 5:30 p.m

PS08CIGMB4: Essentials of Pharmacology.

Note: (1) Figures to the right indicate marks. (2) Draw a neat and labeled diagram, wherever necessary.				
Q. 1	Choose the most appropriate answer from the four alternatives given:	[8]		
(1)	Transdermal therapeutic system are part of (a) Local route of drug Administration (b) parenteral route of drug Administration (c) subcutaneous route of drug administration d) Inhalation			
(2)	Which of the following is prodrug? (a) Prontosil (b) Saquinavir (c) stavudine (d) none of them			
(3)	Which of the following is local anesthetic drug? (a) Lidocaine (b) catacholamine (c) succinyl choline (d) barbiturates			
(4)	All mAChRs are blocked by (a) acetylcholine (b) epinephrine (c) dopamine (d) atropine			
(5)	In Diabetic condition small secretion or total absence of insulin causes: (a) increase glucose uptake (b) reduced glucose uptake (c) reduce glycogen uptake (d) none of them			
(6)	Acarbose is classify in : (a) Glucose inhibitor (b) Glucosidase inhibitor (c) Glucogenic inhibitor (d) all of them			
. (7)	Which of the following antibacterial drug act on cell membrane integrity? (a) vancomycin (b) tetracycline (c) polymaxin B (d) none of them			
(8)	Which of the following is antiviral drug? (a) Acyclovir (b) Polymaxin B (c) Oxazolidinone (d) none of them			
Q.2	Answer any <u>SEVEN</u> from the following:	[14		
(1)	Define pharmacodynamic.			
(2)	What is bioavibility of the drug?			
(3)	Discuss advantages and disadvantages of parentral route of drug administration in			

brief.

(4) Give the classification of anti diabetic drug.

(5) Define parasympatholytics.

	(6)	How angina pectoris occurs?	
	(7)	List out cough depressant compounds. The sale and the sal	
	(8)	Briefly explain the mechanism of action of Alkylating agents	
	(9)	Write the therapeutic uses of sulphonamides.	
Q.3	(a) (b)	Describe parentral route of drug administration in detail Discuss the factor affecting absorption of oral drug in detail.	[6] [6]
		OR	
	(b)	Write detail account on excretion of drug.	[6]
Q.4	(a)	Give the classification of NMJ blocking drugs and explain mechanism of action of non-depolarizing blocking agent in brief.	[6]
	(b)	Give brief account on local anesthetics drug	[6]
		OR and the control of	
	(b)	Write a detail account on cholinergic transmission.	[6]
Q.5	(a)	Classify the drug used in cardiovascular disorders. Discuss mechanism of action of any one in detail.	[6]
	(b)	Write mechanism of action and side effects of thiazide diuretics and betabloker in brief.	[6]
		OR	
	(b)	Write detail account on oral antidiabetic drug.	[6]
Q.6		Write detail account on antimetabolites.	[6]
	(b)	Describe mechanism of actions of action of fluoroquinolones and sulfonamides in detail.	[6]
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	(b)	Give classification of antiviral drug according to virus specific action. Write brief account on antiviral drugs against HIV and AIDS.	[6]