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GUJARAT TECHNOLOGICAL UNIVERSITY				
BE - SEMESTER-III (NEW) EXAMINATION – SUMMER 2019 Subject Code: 2122601			0010	
Su	bject	Code: 2135001 Date: 04/06/2	2019	
Su	bject	Name: Introduction to Medicinal Chemistry &		
Bio	ocher	nistry(Elective-I)		
Time: 02:30 PM TO 05:00 PM Total Marl			as: 70	
Inst	tructio	ons:		
	1.	Attempt all questions.		
	2. 2	Make suitable assumptions wherever necessary.		
	5.	Figures to the right multate full marks.	MARKS	
0.1	(a)	Drow the diagram of any was have and look model. Evaloin Driefly	02	
Q.1	(a) (b)	Explain Enzyme Inhibition in Datail	03	
	(D) (c)	What is Glycolysis? Explain Glycolysis in detail with	04	
	(C)	ATP Synthesis	07	
Q.2	(a)	Write the mode of action of Azole class of antifungal agent. Give one	03	
		example in each class & Write the MOA of Azole antifungal agents		
	(b)	Write the SAR of Sulphonamide class of antibacterials.	04	
	(c)	Discuss classification of antimalarial drugs with examples.	07	
	(-)	OR		
	(c)	Define Harmones? Give the classification of hormones with their functions	07	
Q.3	(a)	Describe the viral life cycle.	03	
	(b)	What are GMPs? Why GMP is important? What are the responsibilities	04	
	(c)	Explain the Glycolysis pathway in detail.	07	
		OR		
Q.3	(a)	Define (1). Structure- Activity Relationship (SAR), (2). Medicinal	03	
		Chemistry, (3). Drug	0.4	
	(b)	Write the classification with averales of anti-amachia drugs. Write the	04	
	(C)	MOA & Synthesis of Matronidezele	07	
04	(9)	Discuss Photosynthesis in detail	03	
7.7	(a) (h)	What is the medical condition called "Gout"? How the anti-gout agents	03	
	()	work? Give suitable example with structures.	••	
	(c)	Write the MOA, synthesis & metabolism of Ethambutol	07	
		OR		
Q.4	(a)	Write the MOA & synthesis of any one Sulphonamide drug	03	
	(b)	Describe the MOA & synthesis of any one alkylating agent anti-neoplastic	04	
		drug.		
	(c)	Define drug metabolism. Write its importance. Describe the pathways with	07	
		suitable example.		
Q.5	(a)	Write the classifications, MOA of anti HIV drugs with one example	03	
	(b)	Write the SAR of 4-aminoquinoline antimalarial drugs.	04	
	(C)	Write the mode of action of Non-Steroidal Anti Inflammatory drugs	U7	
		NSAID		



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		011	
Q.5	(a)	Explain the following terms in viral reproductive cycle: (1). Transcription,	03
		(2). Translation, (3). Reverse transcription	
	(b)	Explain different cell organelles and their function with diagram	04

(b) Explain different cell organelles and their function with diagram
(c) Define the term: Transamination. Discuss Urea cycle in detail
07

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