P. P. SAVANI UNIVERSITY

Third Semester of M.Sc. Examination December-2021

SSCH8090-Medicinal Chemistry
Time: 12:30 p.m. to 3:00 p.m. Maximum Marks: 60

16.12.2021, Thursday

Ins	tructions:	
1.	The question paper comprises of two sections.	
2.	Make suitable assumptions and draw neat figures wherever required.	
3.	Use of scientific calculator is allowed.	
	Section-I	
Q.	, control (minute)	[10]
1.	1 State the pharmacokinetic (PK) properties of drugs	
1.	What is the clinical utility of Acetylcholinesterase and Dihydrofolate reductase?	
1.	Write the different fundamental mechanism of drug action?	
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Q.	Write Short Notes (Attempt any two)	[06]
2.	Write a short note on plasma protein binding and tissue binding?	
2.		
2.		
Q.	3 Detail questions (Attempt any two)	[14]
3.		[]
	designs with diagram?	
3.	Write down the different steps of Drug Discovery Process? Discuss about	
	Clinical trials-Different Phases of drugs?	
3.3	Write the role of medicinal chemists? What are the area which comes under	
	drug discovery field?	

Section-II

Q.1	Very Short Questions (Attempt any five)	[10]
1.1	Define the term pain and analgesics?	
1.2	Define the term Anesthesia and NSAIDs?	
1.3	Definition of Tranquilizer?	
1.4	Writ the role of phenothiazine drugs?	
1.5	What is the mechanism of Osmotic diuretics and Loop diuretics?	
1.6	Draw the structure of Fluoxetine and Trazodone?	
Q.2	Write Short Notes (Attempt any two)	[06]
2.1	Write down the synthesis method of Indomethacin?	
2.2	Write a short note on Structure-Activity Relationships of benzodiazepines?	
2.3	Write down the synthesis method of Triflupromazine and its uses?	
Q.3	Detail questions (Attempt any two)	[14]
3.1	Write the Synthesis method, mechanism of actions, uses and side effects of	
	Chlorpromazine?	
3.2	Discuss about the Chemistry, synthesis and uses of Glipizide?	
3.3	(a) Draw the structure of Piroxicam and Meloxicam? (b) Write down the synthesis method of Piroxicam?	