Seat No.:	
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AJ-102

April-2015

M.Sc., Sem.-IV

CHE (O) 510 : Chemistry

(Selected Topics in Medicinal Chemistry)

Tim	e: 3	Hour	rs] [Max.	Marks: 70
1.	Ans	wer tl	ne following questions:	
	(A)	(1)	Write a note on "Lead Compound Identification".	4
		(2)	Write a note on "Literature of Medicinal Chemistry".	3
			OR	
		(1)	Write in brief about "Drug Receptor Interactions".	
		(2)	Write a note on "Pro Drug".	
	(B)	Wri	te a note on Structure Activity Relationship studies.	7
			OR	
		Wri	te a note on phases I, II and III of clinical trials in detail.	
2.	Answer the following questions:			
	(A)	Wha	at is biotransformation? Write a note on phase I drug metabolism.	7
			OR	
		Wri	te a note on "conjugation reactions assisted drug metabolism" in detai	1.
	(B)	(1)	Describe in brief "Pharmacokinetic parameters of elimination".	4
		(2)	Describe in brief "Drug distribution".	3
			OR	
		Wri	te a note on "Aid of Pharmaceutics in drug development process".	
3.	Ans	wer tl	ne following questions:	
	(A)	Wri	te a note on various types of dosage forms in detail.	7
			OR	
		Clas	sify various roots of administration and discuss any two in detail.	
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	(B)	Give a brief overview for "Computers in Chemistry".	7	
		OR		
		(1) Discuss one modern method of pharmaceutical analysis.	4	
		(2) Give the background and development of Indian Pharmacopeias in brief.	3	
4.	Answer the following questions:			
	(A)	Write a note on "Use of Nanomaterials for drug delivery".	7	
		OR		
		Give a brief overview of "Protein and Peptide drug delivery".		
	(B)	Write a note on "Nanotechnology potential in oncology".	7	
		OR		
		Write a note on "Nanonephrology".		
5.	Answer the following questions:		14	
	(1)	What is ANDA in drug development?		
	(2)	What is "Soft drug" ?		
	(3)	What is efficacy?		
	(4)	What is EC ₅₀ ?		
	(5)	What stands for "FDA"?		
	(6)	What is HTS in drug discovery ?		
	(7)	What is QSAR ?		
	(8)	What is potency?		
	(9)	What is combinatorial chemistry?		
	(10)	What is "Induced fit"?		
	(11)	What is "Scifinder Scholar"?		
	(12)	What is Lead optimization?		
	(13)	Give three important websites for online journals in chemistry.		
	(14)	What are Nanorobots?		

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