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MSC4ascE0112

Seat No: _____

M.Sc. Semester - 4 (CBCS) Examination March/April- 2018 ADVANCED MEDICINAL CHEMISTRY

(ELECTIVE - 1)

Instructions:		Marks: 7
	all questions are compulsory.	
	igures to the right indicate marks.	
Q.1 Answer any seven of the following ten questions.		(14)
	1. Explain the term (i) MIC (ii) LD ₅₀ (iii) IC ₅₀	
	2. What is Lead compound? Explain briefly.	
	3. What is IPR?	
	4. Define (i) Efficacy (ii) Potency	
	5. Discuss (i) Agonist (ii) Antagonist	
	6. Explain 'Fick's law of Diffusion'	
	7. Write applications of prodrug.	
	8. What is polymorphism? Give one example.	
	9. Enlist various route for drug administration.	
	10. What is SAR ? Give one example.	
Q.2 Answer any two of the following three questions.		(14)
1.	Write a note on furka's mix and split method for combinatorial library.	•
2.	. Enlist various techniques for lead identification.	
3.	. Explain briefly: (i) Hard drug (ii) Soft drug (iii) Prodrug	
Q.3 A	nswer the following questions.	(14)
1.	. Discuss synthesis of ticlodipine.	
2.	. Enlist Phase-I reactions with examples.	
	OR	
Q.3 A	inswer the following questions.	(14)
1.	. Enlist Phase-II reactions with examples.	
2.	Discuss asymmetric synthesis of (S) cetrizine hydrochloride.	
Q.4 A	nswer any two of the following three questions.	(14)
1.	Write a note on various lead modification strategies.	
2.	. Give synthesis of enantiomerically pure (+) clopidogeral.	
3.	Enlist conditions of patentability and non-patentable inventions.	
Q.5 Answer any two of the following four questions.		(14)
1.	. Give synthesis of Tamiflue.	
2.	. What is bioisosterism? Explain with examples.	
3.	•	
4.		
