PARANA – II (2012 COURSE) (CBCS): JULY – 2013 SUBJECT : ADVANCE CORE SUBJECT – II: ADVANCED PHARMACEUTICAL CHEMISTRY – II

from Section - II.	ns from Section – I and ANY THREE questions build be written in the SEPARATE answer books LL marks.			
from Section - II. 2) Answers to both the sections sh	ould be written in the SEPARATE answer books			
SEC	TION – I			
Q.1 Explain ANY TWO of the followin	g: [10			
a) ACE inhibitor drugsb) Xanthin oxidase inhibitor drugs				
c) Aromatage inhibitor drugs				
d) HMG Co-A reductase inhibitor drug	S			
Q.2 Explain in detail rationale for the inhibitors.	design of noncovalently binding enzyme [10]			
Q.3 Discuss how pharmacokinetic barrie	ers can be overcome by prodrug approach[10]			
a) KCat inhibitorsb) Rapid reversible inhibitors	Rapid reversible inhibitors Site specific delivery through prodrug			
SEC	TION – II			
Q.5 Using Synthon approach, give the TWO of the following:	retrosynthesis as well as synthesis of ANY [10			
a) Terfenadine c) Ci	metidine			
b) Ibuprofen d) N	ifedipine			
Q.6 Discuss bioisosterism with suitable	Discuss bioisosterism with suitable examples			
Q.7 Discuss giving examples, catagor strategy for new lead compounds.	ies and pros and cons of analog design [10]			
Q.8 Write elaborate notes on ANY TWO a) Molecular variations in homologous b) Voltage – gated ion channels as dru c) Free Wilson analysis d) Advantages and drawbacks of QSA	series g targets			

PARANA – II (2012 COURSE) (CBCS): JULY – 2013 SUBJECT : ADVANCE CORE SUBJECT – III: ADVANCED PHARMACEUTICAL CHEMISTRY – III

Day Date	:	Friday 05/07/2013		Time : Max. I	10:00 A.M. TO 1:00 P. Marks : 60	M.	
N.B.	1	from Section -	II.				
			h the sections should be written in the SEPARATE answer books ight indicate FULL marks.				
			SE	CTION – I			
Q.1	a) b)	Discuss synthesis reaction conditions Gefitinib Fluoxetine	of ANY TWO and stereocher c) d)	O of the following d mistry wherever applie Risperidone Ciprofloxacin	rugs. Give mechanism cable.	[10	
Q.2	a) b)	What is asymmetry synthesis of ANY Citrenalol Diltiazim	rwo of the for	Use asymmetric llowing drugs: Naproxen Thienamycin	synthesis methods for	[10	
Q.3		Discuss various me note on somatostati	thods to study	stability of proteins a	nd peptide drugs. Add a	[10	
Q.4	a) b) c) d)	Write elaborate not Parallel solution sy: Encoded library sy: High throughput sc Linkers and their ap	nthesis nthesis reening	VO of the following:		[10	
			SEC	CTION – II			
Q.5		Classify Anti-arryt account of Class IA	hmatic agents. drugs.	. Give MOA, of ea	ach class and write an	[10	
Q.6		What is Cancer? Write a detail accord	Give classific int of anti-meta	cation of anti-cancer abolites as anti-cancer	agents with examples. agents.	[10	
Q.7		Give an account of principal componen	of Computer A	Aided Drug Design. cluster analysis in drug	Write an account of g design.	[10	
		Write elaborate note Synthesis of Propra Drugs used in Parki Quantum mechanics	nolol and Tolb nson's disease			[10]	