Q.P. Code :01910

[Marks:40]

P.T.O

	N.B:		.B: 1.	1. Question No.1 is compulsory.		
			2.	Answer any four questions from the remaining six questions.		
			3.	Figures to the right indicate full marks.		
Q.1		Answer the following as directed (Any eight)				
		a) Give the generic name and structure of an anticancer alkylating agent.				
		b)	Structur hydrolys	re and chemical name of the main metabolic product of lignocaine on sis.		
		c)	Give the	e generic name and structure for an antiulcer agent containing furan ring.		
		d)	Give the group.	e generic name and structure of Reverse Transcriptase Inhibitor with -azido		
		e) f)		e generic name and structure for a nitrosourea used against brain tumors. he enzyme on which voglibose acts.		
		g)		e generic name and structure of a pyrazinoyl guanidine diuretic agent.		
		h)	Give the	e structure of a primary oxidative metabolite of terfenadine.		
		i)	Give the	e generic name and structure of an endogenous glucocorticoid.		
Q.2	(a)	Outline the synthesis of any two of the following with necessary reagents and appropriate				
		reaction conditions.				
		1)	Cimetid	line		
		2)	Benzoca	aine Company and the company a		
		3)	Acetalzo	olamide		
	(b)) Write the mechanism of action of metformin.				
Q.3	(a)	a) Give reactions to show how the alkylating agent Procarbazine is activated in vivo.		(04)		
	(b)) Draw the structure of testosterone. Show numbering of the steroidal nucleus. Give any two important SAR points pertaining to its structure.				
Q.4	(a)) 'Electron donating substituents increase binding of Local Anaesthetics to the receptor'. Explair with examples.				
	(b)	Write a note on 'Anti – estrogens', give suitable examples with structures.				
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[Time: Two Hours]

Please check whether you have got the right question paper.

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(a)	Classify antiviral agents based on the lifecycle of HIV. Support your answer with suitable examples and structures.				
(b)	Write a note on pyrimidine antimetabolites.	(04)			
(a)	Give the Mechanism of action for (any two) 1) 6 – Mercaptopurine 2) Tolbutamide 3) Omeprazole	(04)			
(b)	1) 3β -Methyl- 5α -cholestan- 3α - ol POCI ₃ /Pyridine	(02)			
(c)	2) 5β -Cholestan-3-one Give the structure and use of an anabolic steroid.	(02)			
	Write notes on any two of the following. 1) Proton pump inhibitors 2) High ceiling Loop Diuretics 3) Anticancer antibiotics	(08)			
	(b) (a)	 (b) Write a note on pyrimidine antimetabolites. (a) Give the Mechanism of action for (any two) 1) 6 - Mercaptopurine 2) Tolbutamide 3) Omeprazole (b) Complete the following reactions: 1) 3β-Methyl-5α-cholestan-3α- ol 2) 5β-Cholestan-3-one H₂/Pt, Acidic Solution (c) Give the structure and use of an anabolic steroid. Write notes on any two of the following. 1) Proton pump inhibitors 2) High ceiling Loop Diuretics 			