## Paper / Subject Code: 69005 / Pharmacology-I

Q.P. CODE: 38012

N.	В.	(1)	All questions are compulsory	Marks: 70
			Figures to the right indicate full marks	
O	1a.	Ans	wer the following	12
	(i)		Discuss following terms i.e. 'inverse agonist' and 'bioequivalene	
	(ii		Explain terms	
	`	,	1) Carcinogenicity	
			2) Mutagenicity	
	(ii	i)	Enlist the therapeutic uses of adrenergic drugs	
	(iv		Explain the term 'receptor' and classify with examples	
	(v)		Classify adrenergic receptors and give example of selective anta	gonist for
		,	each subtype	
	(v	i)	Enlist factors affecting volume of drug distribution	
0	`	/	Give mechanism of action of loop diuretics	3
			Classify skeletal muscle relaxants	
			Enlist side effects of atropine	
0	2 (a		nswer any two of the following	8
	(i)		Describe synthesis, storage, release, and metabolism of acetylch	oline
	(ii		What are ganglion blocking agents? Compare and contrast between	
	`		depolarizing and non-depolarizing agents.	
	(ii	i)	Discuss in-detail pharmacological actions of adrenaline	<i>Y</i>
0	,		nswer any one of the following	3
`	(i)		Discuss hepatotoxicity and related causes	
	(ii		Classify routes of administration and discuss advantages and	
	`	,	disadvantages of oral route over parenteral route	
Q	3 (a	ı) Aı	nswer any two of the following	8
`	(i)		Classify anti-anginal agents and add a note on nitrates	
	(ii		Classify antiarrhythmic agents and discuss the role of calcium cl	nannel
	`		blockers in-detail	
	(ii	i)	Classify antihyperlipidemic drugs. Write a note on bile acid sequ	uestrants
$\cap$	2 (h		nswer any one of the following	3
V		イドワゴ		
No.	(i)	7 05	Describe mechanism of action of digitalis and state related toxic	щу
$\hat{\mathbf{O}}$	) 1500		Write a note on sodium channel blockers with examples asswer any two of the following	8
Y		W. V.		
	(i)		Classify cholinergic receptors and discuss therapeutic uses of se	iective
			agonist and antagonist for each subtype of receptor	ominos
	(ii		Describe synthesis, storage, release, and metabolism of catechol	annies
0	(ii		Explain in-detail the therapeutic effects of sympatholytics nswer any one of the following	3
V	D' 77	07/		3
35,0	(i)		Classify anticholinesterases and discuss related therapeutic use Discuss the therapeutic role of adrenaline	
Sold Sold Sold Sold Sold Sold Sold Sold	(ii 5 (o	5' 5-1		8
Y	A / ~	D' O.	nswer any two of the following  Describe enzyme linked recentors in detail	o
XX.	(i)		Describe enzyme-linked receptors in-detail  Explain the adenylylcyclase c-AMP pathway of GPC receptors.	
200	(ii	-y /	What are nuclear receptors? Explain related mechanism of action	n swith
	(ii		example	11 77 1111
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Q 5 (b) Ar	nswer any one of the following	3			
(i)	Discuss renal route of excretion with examples of a drug	3			
(ii)	Classify phase II reaction with example and write a note on any one	80			
	reaction				
Q 6 (a) An	nswer any two of the following	8			
(i)	Write a note on thiazide diuretics				
(ii)	Discuss therapeutic uses and complication of diuretics				
(iii)	Describe role of carbonic anhydrase inhibitors and loop diuretic in the				
	treatment of hypertension				
Q 6 (b) Answer any one of the following					
(i)	Write a short note on tolerance?	20,			
(ii)	Explain how body weight affects drug action	D'			
		22			
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