Time: 3 hours

Q. P. Code: 37483

Marks: 80

N. B.	(1) All questions are compulsory		
	(2) Figures to the right indicate full marks		
O 1a.	Answer the following		
(i)	"Higher protein binding capacity results in increase in duration of action". True or		
	false with justification		
(ii)			
`	Define plasma half life and discuss related significance		
(iv			
(v)	Classify adrenergic receptors and give example of selective antagonist for each subtype		
(vi	Enlist factors affecting drug absorption		
(vi	i) Biotransformation is process of detoxification-True or false with justification		
(vi	ii) Define 'drug intolerance' and 'placebo' effect.		
Q 1b.	(i) Give mechanism of action of Furosemide 4		
	(ii) Classify skeletal muscle relaxants		
	(iii) Enlist side effects of atropine		
	(iv) Define therapeutic index?		
Q 2 (a	Answer any two of the following 8		
(i)	Describe synthesis, storage, release, and metabolism of catecholamine		
(ii)			
	non-depolarizing agents.		
(iii	Explain in-detail therapeutic effects of anticholinergic drugs		
Q 2 (b) Answer any one of the following 4		
(i)	Discuss factors affecting drug action		
(ii)	Classify routes of administration and discuss advantages and disadvantages of oral route over parenteral route		
Q 3 (a) Answer any two of the following 8		
(i)	Classify anti-anginal agents and add a note on considered combination therapy in treatment		
(ii	Classify antiarrhythmic agents and discuss the role of Sodium channel blockers indetail		
(iii) Classify drugs used in antihyperlipidemic therapy and write a note on fibrates		
Q 3 (b) Answer any one of the following 4		
(i)	Describe mechanism of action of digitalis and related role in the treatment of		
3200	congestive heart failure		
(ii)			
329,7			

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Q 4 (a) A	nswer any two of the following		
(i)	Classify anticholinesterases and discuss related therapeutic use		
(ii)	Describe synthesis, storage, release, and metabolism of acetylche	oline	
(iii)	Explain in-detail the therapeutic effects of sympatholytics		
Q 4 (b) A	answer any one of the following	3333344	
(i)	Discuss the therapeutic role of adrenaline in-detail		
(ii)	Classify cholinergic receptors and discuss therapeutic uses of sel antagonist for each subtype of receptor	ective agonist and	
Q 5 (a) A	nswer any two of the following		
(i)	Discuss physiology of GPCR and also explain the role of secondary messengers.		
(ii)	Describe enzyme-linked receptors in-detail		
(iii)	What are nuclear receptors? Explain related mechanism of action	n with example	
Q 5 (b) A	answer any one of the following		
(i)	Classify phase II reaction with example and write a note on any	one reaction	
(ii)	Discuss all routes of excretion with examples of a drug		
Q 6 (a) A	nswer any two of the following	8	
(i)	Write a note on potassium sparing diuretics and related therapeu	tic use	
(ii)	Discuss therapeutic uses and complication of diuretics	T .	
(iii)	Describe role of carbonic anhydrase inhibitors and loop diuretic hypertension	in the treatment of	
Q 6 (b) A	answer any one of the following	4	
(i)	Write a short note on drug tolerance & dependence?		

Explain how route of administration, body weight & gender affects drug action

(ii)