Q.P. CODE: 38011

N. B. (1	1) All questions are compulsory	Marks: 70
(2	2) Figures to the right indicate full marks	
	\$ \$ \$ \$. 	
Q 1a. An	nswer the following	12
(i)	Define	
	1) Pharmacodynamics	
	2) Pharmacokinetics	
(ii)	Explain following terms i.e. bioavailability and bioequivale	nce
(iii)	Explain the term 'receptor' and classify with examples	2 1 6 1 6 6 6 C
(iv)	Classify muscarinic receptors and give example of selective each subtype	antagonist for
(v)	Give mechanism of action of Enalapril	
(vi)	Why HDL is known as good cholesterol?	
, ,	Explain the term "inverse agonist" with example	3
) Classify antiarrhythmic drugs	
	i) Enlist factors affecting drug absorption	Service Service
Q 2 (a) A	Answer any two of the following	8
(i)	Discuss in-detail pharmacological actions of adrenaline	(((((((((((((((((((
(ii)	Classify skeletal muscle relaxants. Differentiate between de	epolarizing and
	non-depolarizing muscle relaxants.	
(iii)	Describe synthesis, storage, and hydrolysis of acetylcholine	3 6
Q 2 (b) A	Answer any one of the following	3
(i)	Discuss nephrotoxicity and related causes	
(ii)	Classify routes of administration and discuss advantages an	d
	disadvantages of parenteral route over topical route	
Q 3 (a) A	Answer any two of the following	8
(i)	Classify beta blockers and give their role in the managemen	t of
	cardiovascular diseases	
(ii)	Classify anti-anginal drugs and write a note on combination	therapy used
2000	in the treatment of angina	
(iii)	Classify anti-hyperlipidemic drugs. Write a note on fibrates	
Q 3 (b) A	Answer any one of the following	3
(i)	Give mechanism of action of organic nitrates	
(ii)	Write a note on sodium channel blockers with examples	
	Answer any two of the following	8
Y 20 .95 () /	Describe synthesis, storage, release, and metabolism of cate	
V. O. A. F. /20	Explain in-detail the therapeutic effects of parasympatholyt	
(111)	Classify adrenergic receptors and discuss therapeutic uses of	f selective
	agonist and antagonist for each subtype of receptor	
	Answer any one of the following	3
(i)	Classify anticholinesterases and discuss related therapeutic	use
(ii)	Explain the mechanism of action of olmesartan	0
4 CV CV C	Answer any two of the following	8
(i)	What are GPC receptors? Explain role of secondary messen example	gers with
(ii)	Discuss ligand gated ion channel receptors in-detail	
(iii)	What are nuclear receptors? Explain the mechanism of action acting on nuclear receptors	on of drugs
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Q 5 (b) Ar	nswer any one of the following	3
(i)	Discuss various routes of excretion with examples of drugs	
(ii)	Describe phase I reactions in-detail	
Q 6 (a) Ar	nswer any two of the following	8
(i)	Classify diuretics. Discuss role of carbonic anhydrase inhibitors in-d	letail
(ii)	Discuss therapeutic uses and complication of diuretics	
(iii)	Compare and contrast loop diuretics with thiazide diuretics	
Q 6 (b) Ar	nswer any one of the following	3
(i)	How does gender and body weight affect drug action?	6
(ii)	Explain how pathological conditions affect drug action	120
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