	(3 Hours)	(Total Marks: 80)
	All questions are compulsory. Figures to the right indicate full marks.	
Q.1A) Ans	wer the following:	16
i)	Define prodrug. Give one example	
ii)	Define a) Partial agonist b) Therapeutic index	
iii)	Define a). Apparent Volume of distribution; b) Clearance	
iv)	Enlist centrally acting antihypertensive agents	
v)	Explain the term placebo effect	
vi)	Write the Mechanism of action of sodium Nitroprusside.	
vii)	Classify anti- arrhythmic drugs.	
viii)	'Salmeterol and ipratropium bromide are preferred in the tro	eatment of asthma'. True
	or False and justify	
Q.1B) Ans	wer the following:	4
i)	Define Biotransformation.	
ii)	Enlist the factors affecting absorption.	
iii)	Classify adrenergic receptors.	
iv)	Write name of drugs belongs to class of osmotic diuretics.	
		_
	wer any TWO of the following	8
i)	6	discuss the
3	pharmacodynamics of adrenaline on Heart and eye.	
ii)	0.4.40.40.60.80.80.80.40.80.80	
iii)	\$0\0\X\X\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	epolarizing and non-
\$1.57.55 CC	depolarizing agents.	
Q.2 B) Ans	wer <u>any ONE</u> of the following:	4
		ntages and disadvantages
	of oral route of administration.	
ii)		olubility, and ionized as
	factors affecting drug distribution with examples.	
Q.3 A) Ans	wer any TWO of the following:	8
	\$ 67.54 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	opril.
ii)	Write a note on pharmacotherapy of calcium channel block	-
iii)		
71611	Page 1 of 2	

Q.3 B) Answer any **ONE** of the following: Classify antihyperlipidemic agents and write a note on pharmacotherapy of Statins. i) ii) Write a short note on Quinidine. Q.4 A) Answer any TWO of the following: 8 Classify parasympathomimetic agents and discuss specific therapeutic use. i) ii) Classify sympatholytics and discuss related the pharmacotherapy of alpha adrenergic blocking agent iii) Describe synthesis, storage, release, and metabolism of acetylcholine. Q.4 B) Answer any **ONE** of the following: Discuss the clinical uses of Anticholinergic drugs i) ii) Discuss the pharmacotherapy of dantrolene 8 Q.5 A) Answer any **TWO** of the following: i) Discuss physiology of ion channels with examples ii) Enlist the different families of receptors and explain transducer mechanism of Gprotein coupled receptors. iii) Write a short note on competitive and non competitive antagonism with examples Q.5 B) Answer any **ONE** of the following: i) Discuss Phase II with example ii) Write a note on Phase I with example Q.6 A) Answer any **TWO** of the following: 8 i) Classify Diuretics. Compare and contrast thiazides and potassium sparing diuretics. Write the mechanism of action of high ceiling diuretics with its uses and ii) complications. Elaborate on the role of sodium channel blockers in the management of iii) cardiovascular disorders. Q.6 B) Answer any **ONE** of the following: Enlist patient related factors modifying drug actions. Explain any two factors with

example. Write a short note on tolerance and drug dependence. ii)

71611 Page 2 of 2