Time: 3	Hrs Marks	: 80
) All questions are compulsory	Sign.
(2) Figures to the right indicate full marks	
O la An	swer the following	16
(i)	Discuss following terms i.e. 'pharmacodynamic' and 'pharmacokinetic	
(ii)	Explain terms Explain terms	
(11)	1) Tolerance	
	2) Drug dependence	
(iii)	Describe drug treatment of glaucoma in short	
(iv)	Explain the term 'receptor' and classify with examples	2)
(v)	Specific beta 1 blockers are preferred over non specific beta 1 blockers	in the
(1)	treatment of hypertension. True or false and Justify	
(vi)	How disease status such as liver or kidney damage of a patient affects of	drug action
(vii)	Biotransformation is process of detoxification-True or false with justification-True or false with	
(, 11)		7
Q 1b. (i	i) Give mechanism of action of loop diuretics	24
	ii) Classify skeletal muscle relaxants	£97.
,	ii) Enlist side effects of atropine	
	v) What is drug dependence?	
(0)		
O 2 (a) A	nswer any two of the following	8
(i)	Describe synthesis, storage, release, and metabolism of catecholamines	
(ii)	What are ganglion blocking agents? Compare and contrast between dep	
b' (11)	non-depolarizing agents.	
(iii)	Discuss in-detail pharmacological actions of adrenaline	
O 2 (b) A	answer any one of the following	4
(i)	Discuss factors affecting bioavailability of drug	
(ii)	Classify routes of administration and discuss advantages and disadvant	ages of topica
	route	
O 3 (a) A	nswer any two of the following	8
(i)	Classify anti-anginal agents and add a note on pharmacotherapy of calc	_
3) (1)	blockers	Addit Chamier
(ii)	Classify antiarrhythmic agents and discuss the role of sodium channel	blockers in-
	detail	JIOCKCIS III
(iii)	Classify antihyperlipidemic drugs. Write a note on statins	
	Sidesify unitarifyering actions at a decision statement	
O 3 (b) A	answer any one of the following	4
(i)	Describe mechanism of action of digitalis. Also state related clinical us	se and side
(1)	effects	e and stac
(ii)	Write a note on vasodilators with examples & therapeutic use	
	The a note of rasoundors with examples & merapeane use	
O 4 (a) A	nswer any two of the following	8
(i)	Classify adrenergic receptors and discuss therapeutic uses of selective	
(1)	antagonist for each subtype of receptor	2011101 11111
(ii)	Classify and explain in-detail the therapeutic effects of parasympatholy	rtics
(iii)	Classify anticholinesterases and discuss related therapeutic use	105
(111)	Classify antichornic sterases and discuss related dictapedite use	

Paper / Subject Code: 69102 / Pharmacology - I

Q 4 (b) .	Answer any one of the following	4
(i)	Explain the mechanism of action of prazocin & related therapeutic uses	
(ii)	Discuss the therapeutic role of adrenaline in-detail	
Q 5 (a)	Answer any two of the following	- 8
(i)	Describe enzyme-linked receptors in-detail	
(ii)	Explain therole of secondary messengers in GPC receptors.	
(iii)	Discuss physiology of ion channels with example	
, ,		
Q 5 (b)	Answer any one of the following	4
(i)	Discuss all routes of excretion with examples of a drug	
(ii)	Discuss phase I reaction with example	
Q 6 (a)	Answer 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 treatm	ent o
	hypertension	
Q 6 (b)	Answer any one of the following	4
(i)	Drug related factors affecting drug action?	
(ii)	Explain how body weight & gender affects drug action	
