Q.P. Code:04477

[Marks:70]

		Please check whether you have got the right question paper.	
		N.B: 1. All questions are compulsory	300
		2. Figures –to the right indicate full marks.	3000
1.	(a)	Answer the following:	12
	i)	Define:	
		a) Inverse agonist b) Bioequivalence	3
	ii)	Enlist factors affecting volume of drug distribution.	
	iii)	Classify cholinergic receptors with the examples of agonist and antagonist of each sub-types.	
	iv)	"Beta blockers are contraindicated in diabetic patients". State true or false and justify.	
	v)	Enlist the therapeutic uses of adrenergic drugs.	
	vi)	Enlist the therapeutic uses of statins.	
	b)	i) What is neurohumoral transmission?	03
	,	ii) Enlist the side effects of atropine.	
		iii) Classify antiarrhythmic drugs.	
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2.		Answer any two of the following:	08
	i) ::\	Describe synthesis, storage, and hydrolysis of Acetylcholine. Classify cholinergic receptors with examples of agonist and antagonist of each. Discuss predominant	
	ii)	pharmacological actions of muscarinic receptor activation.	
	:::1	Explain in detail the pharmacotherapeutic actions of anticholinergic drugs.	
	,	Explain in detail the pharmacotherapeutic actions of anticholinergic drugs.	
	b)	Answer any one of the following.	03
	i)	What are the different routes of administration? Give advantages and disadvantages of parenteral route	
		of administration.	
	ii)	What is biotransformation? Discuss various Phase I reactions.	
3.	ි (a)	Answer any two of the following:	08
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	~\\\.	Classify drugs used as antihyperlipidemic therapy. Write briefly about bile acid sequestarants.	
		Classify calcium channel blockers and give their role in the management of angina pectoris.	
	5 b)	Answer any one of the following:	03
9,99		Explain the actions of Angiotensin receptor blockers.	
	100	Explain the mechanism of action of Digitalis.	
4.	(a)	Answer any two of the following:	08
	N. 6	Describe the clinical uses of anticholinesterases. What are the symptoms and treatment of	
		organophosphorus poisoning?	
	ji).	Classify skeletal muscle relaxants. Differentiate between Galamine and Succinylcholine.	
	'm' o	Explain the Pharmacological actions of Acetylcholine.	

[Time: 2½ Hours]

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	b)	Answer any one of the following.	0
	i)	Discuss the therapeutic role of Adrenaline.	
	ii)	Discuss the treatment of glaucoma.	1000
5.	(a)	Answer any two of the following:	08
	i)	Classify receptors? Explain IP3 DAG pathway in-detail.	
	ii)	What are nuclear receptors? Explain the mechanism of action of drug acting on nuclear receptors.	
	iii)	Differentiate between competitive and non-competitive inhibition.	
	b)	Write short note on any one of the following.	03
	i)	Nephrotoxicity	
	ii)	Paracetamol over-dosage causes hepatoxicity	
	iii)	Discuss factors affecting bioavailability.	
6.	(a)	Answer any two of the following:	08
	i)	Classify diuretics. Write a short note on Potassium Sparing Diuretics.	
	ii)	What is the role of beta blockers in the management of cardiovascular diseases? Classify with related	
		drug examples.	
	iii)	Discuss the mechanism of action of:	
		a) Quinidine b) Organic Nitrates	
	b)	Answer any one of the following:	03
	i)	What is the correlation between protein binding capacity of a drug and its action?	
	ii)	Explain dose response relationship.	