MD PHARMACOLOGY (PAPER ONE)

GENERAL & BASIC PHARMACOLOGY

[Time	[Time allotted: Three hours]	
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Describe the role of pharmacokinetic principles in designing and optimizing dosa	ge regimens. (20)
Q. 2.	Describe ABC drug transporters and their role in drug transport and disposition.	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Carcinogenicity testing	
	b. Pharmacoeconomics	
	c. Pharmacovigilance Program of India	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Strategies to reverse drug tolerance	
	b. Genetic polymorphism and drug action	
	c. Value and limitations of fixed dose-drug combinations	
	d. Essential medicines	
	e. Inverse agonism and its clinical relevance	
	X	

MD PHARMACOLOGY (PAPER TWO)

SYSTEMIC PHARMACOLOGY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Explain role of modulation of dopaminergic pathway in therapeutics.	(20)
Q. 2.	What are diuretics? Explain their mechanism of action and their suitability for therapeutics.	r varied conditions in (20)
Q. 3.	Describe briefly: a. Glycopeptide antibiotics b. Pharmacological approaches in pain modulation c. GABA modulation in epilepsy	$(3 \times 10 = 30)$
Q. 4.	 Write short notes on: a. Inhaled corticosteroids b. Role of ACE inhibitors in congestive heart failure c. Bisphosphonates d. Iron therapy in adults e. Sumatriptan 	$(5 \times 6 = 30)$
	X	

MD PHARMACOLOGY

(PAPER THREE)

EXPERIMENTAL PHARMACOLOGY AND BIOASSAYS, SCREENING METHODS, BIOSTATISTICS & QUESTION RELATED TO THESIS WORK

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Describe the screening methods for evaluation of antiepileptic drugs	(20)
Q. 2.	Describe the following:	(10 + 10 = 20)
	a. Screening of anti-depressant drugs	
	b. Chronic toxicity studies in animals	
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Recombinant DNA technology	
	b. Informed consent document and consenting process	
	c. Computational methods in drug discovery	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Pragmatic trials	
	b. Super fusion cascade technique	
	c. Bias in clinical trials	
	d. Translational medicine	
	e. Chi square test	
	_XX	

MD PHARMACOLOGY (PAPER FOUR)

THERAPEUTICS AND TOXICOLOGY, RECENT ADVANCES IN PHARMACOLOGY

[Time	Time allotted: Three hours]	
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Describe recent developments in antifungal drug therapy with emphasis on azoles.	. (20)
Q. 2.	Describe the pharmacotherapy of calcium channel blockers. Highlight the importa	nt therapeutic
	differences between amlodipine and cilnidipine.	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Recent advances in pharmacotherapy of carcinoma prostate	
	b. Recent advances in pharmacotherapy of rheumatoid arthritis	
	c. Antibiotic prophylaxis	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Pharmacotherapy of erectile dysfunction	
	b. Newer drugs developed in India	
	c. Recent advances in pharmacotherapy of obesity	
	d. Evolution of iron-chelating therapy	
	e. HIV vaccines	
	X	