POST GRADUATE EXAMINATION, APRIL - 2019

MD PHARMACOLOGY

(PAPER ONE)

GENERAL & BASIC PHARMACOLOGY

[Time	allotted: Three hours]	[Max Marks: 100]		
Note:	Attempt all questions Illustrate with suitable diagrams.			
Q. 1.	Discuss in detail recent approaches to improve post approval drug safety surveilla	nce. (20)		
Q. 2.	. Discuss the strategies that should be adopted for clinical evaluation of a new compound that has been			
•	found to possess useful pharmacological activity in animal studies.	(20)		
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$		
	a. Desensitization of receptors			
	b. 5-HT in health & disease			
	c. Geriatric pharmacology			
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$		
	a. Transdermal patches			
	b. Translational medicine			
	c. Sir James Black			
	d. L-arginine			
	e. Nuclear receptors			
	X			

POST GRADUATE EXAMINATION, APRIL - 2019

MD PHARMACOLOGY (PAPER TWO)

SYSTEMIC PHARMACOLOGY

[Max Marks: 100] [Time allotted: Three hours] Note: Attempt all questions Illustrate with suitable diagrams. (20)Discuss role of adrenergic α -receptor subtypes in regulation of vascular tone. Q. 1. Describe ancillary properties of β-blockers. Describe advantages and limitations of vasodilatory Q. 2. (20)beta-adrenergic receptor blockers. $(3 \times 10 = 30)$ Q. 3. Describe briefly: a. Antiarrhythmic drugs affecting delayed rectifier K+ current in heart b. Current status of inotropes in congestive cardiac failure c. Direct thrombin inhibitors $(5 \times 6 = 30)$ a. Pharmacokinetics of lithium carbonate b. Selective serotonin noradrenaline reuptake inhibitors (SNRIs) c. Enkephalins and analgesia d. Centrally acting skeletal muscle relaxants e. COMT – inhibitors X

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POST GRADUATE EXAMINATION, APRIL - 2019

MD PHARMACOLOGY (PAPER THREE)

SYSTEMIC 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 various toxicity studies in animals to assess the safety of a drug.	(20)
Q. 2.	Describe various experimental methods for evaluation of analgesic agents.	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. HPLC and its applications in pharmacology	
	b. Selection of appropriate statistical test	
	c. 'P' drug concept	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Contribution of Nobel laureates in pharmacology	
	b. Competitive antagonism	
	c. Newer drug delivery system	
	d. Structure of a scientific paper	
	e. Role and responsibilities of animal ethics committee	
	X	

POST GRADUATE EXAMINATION, APRIL - 2019

MD PHARMACOLOGY

(PAPER FOUR)

THERAPEUTICS AND TOXICOLOGY, RECENT ADVANCES IN PHARMACOLOGY

[Time allotted: Three hours]		[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
.∕Q. 1.	Describe the hormonal drug therapy, along with their therapeutic statucancers.	s, used in treatment of various (20)
Q. 2.	Describe the drug therapy of nausea/vomiting in various settings. Wha	
	field of antiemetic drug therapy?	(20)
Q. 3.	Describe briefly: a. Biological therapies in rheumatoid arthritis	$(3 \times 10 = 30)$
	b. Beta blockers in congestive cardiac failure	
ز	c. Thalidomide and its congeners	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Treatment of MDR tuberculosis	
	b. Atypical antipsychotic 'Aripiprazole'	
	c. Prostaglandin analogue in glaucoma	
	d. Oseltamivir	
	e. Botulinum toxin	
	\mathbf{x}	