### MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

### M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2005

## PAPER I. CENERAL PHARMACOLOGY CLINICAL PHARMACOLOGY EXPERIMENTAL

IA	PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIOS	STATISTICS
Time	Monday, July 04, 2005 e available: 3 Hours	Maximum Marks: 100
K K K	Answer all the questions.  Write your answers that are brief, clear, relevant and legible.  Illustrate your answers with neatly drawn and correctly labelled appropriate.	diagrams wherever
1.	Discuss parenteral (Injections) routes of drug administration.	
		(20 marks)
2.	Discuss the methods to evaluate anti-inflammatory activity of a given dru	ıg.
		(20 marks)
3.	Discuss the non-receptor mechanisms of drug action.	(20 marks)
4.	Write briefly on:	
4A.	Therapeutic drug monitoring (TDM)	
4B.	Dose response curves (DRC)	
4C.	How do you experimentally demonstrate "tachyphylaxis"?	
4D.	Radio-immunoassay (RIA)	
		$(10\times4=40 \text{ marks})$
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# M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2005 PAPER II: SYSTEMIC PHARMACOLOGY: ANS, CNS, CVS, GIT, HEMOPOIETIC, RENAL AND RESPIRATORY SYSTEMS, AUTACOIDS

Tuesday, July 05, 2005

Time available: 3 Hours

K K	Answer all the questions.  Write your answers that are brief, clear, relevant and legible.  Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.		
1.	Enumerate the indirectly acting cholinomimetic drugs. Explain how they act and discuss the		
	clinically useful effects of these drugs on various organs.		
	(20 marks)		
2.	Diagrammatically depict the sites of action of antihypertensive drugs with suitable exam		
	and explain how they act.		
	(20 marks)		
3.	Explain the pathophysiology of Parkinsonism. List the drugs useful in Parkinsonism and		
	discuss how these drugs produce beneficial effects.		
	(20 marks)		
4.	Write briefly on:		
4A.	Lansoprazole		
4B.	Atorvastatin		
4C.	Inhalational agents used in bronchial asthma		
4D.	Fibrinolytics		
	$(10 \times 4 = 40 \text{ marks})$		

Maximum Marks: 100

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PA			EMOTHERAPY, IMMUNOTHERAPY, LANEOUS TOPICS
т.	1111 077	Wednesday, July 0	
	available: 3 Hours		Maximum Marks: 100
Ø Ø	Answer all the questions. Write your answers that are brief, clear, relevant and legible. Illustrate your answers with neatly drawn and correctly labelled diagrams whereve appropriate.		
1.	Discuss the mechanism of a	ction and adverse effe	cts of drugs used in hyperthyroidism.
			(20 marks)
2.	Enumerate the drawbacks of	of Penicillin G and ex	plain the methods adopted to overcome this
	with suitable examples.		
			(20 marks)
3.	Discuss the actions and uses	s of immunosuppressa	nts.
			(20 marks)
4.	Write briefly on:		
4A.	Combined pill		
4B.	GnRh analogues		
4C.	d - penicillamine		
4D.	Triazoles		
			$(10\times4=40 \text{ marks})$
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