MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JUNE 2004

PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, EXPERIMENTAL PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIOSTATISTICS

	PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIOS Tuesday, June 22, 2004	TATISTICS
Γim		ximum Marks: 100
•	Answer all the questions. Write your answers that are brief, clear, relevant and legible. Illustrate your answers with neatly drawn and correctly labelled of appropriate.	liagrams wherever
1.	Discuss the various biotransformation reactions and add a note on prodrug	s. (20 marks)
2.	Discuss the methods to evaluate a drug for peptic ulcer healing activity.	(20 marks)
3.	Write briefly on G-protein coupled receptors.	(20 marks)
4. 4A. 4B.	Write short notes on: Methods to prolong the action of drug Essential drug list	
	ELISA Stundents 't' test.	
		$(10 \times 4 = 40 \text{ marks})$

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PAPER II: SYSTEMIC PHARMACOLOGY: ANS, CNS, CVS, GIT, HEMOPOIETIC, RENAL AND RESPIRATORY SYSTEMS, AUTACOIDS

Wednesday, June 23, 2004

Time available: 3 Hours Maximum Marks: 1	
•	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.	Diagrammatically depict the various sites of action of antihypertensive drugs. Discuss the
	uses and adverse effects of propranolol.
	(20 marks)
2.	Classify anti-epileptics. Discuss the uses and adverse effects of diphenyl hydantoin.
	(20 marks)
3.	Discuss the mechanism of action and adverse effects of drugs used in bronchial asthma.
	(20 marks)
4.	Write short notes on:
4A.	Nitrates in therapy
4B.	Heparin
4C.	Loop diuretics
4D.	II generation antihistamines.
	$(10 \times 4 = 40 \text{ marks})$

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1111	PER III: SYSTEMIC PHARMACOLOGY: CHEMOTHERAPY, IMMUNOTHERAPY, ENDOCRINES AND MISCELLANEOUS TOPICS Thursday, June 24, 2004	
Time available: 3 Hours Maximum Marks: 100		
•	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.	Classify glucocorticoids. Discuss the mechanism of action and uses of glucocorticoids.	
	(20 marks)	
2.	Discuss the special features of tuberculosis pertaining to its chemotherapy. Describe the	
	pharmacology of any two first line antituberculous drugs.	
	(20 marks)	
3.	Classify the drugs used in AIDS. Discuss the pharmacology of the most commonly used	
	antiretroviral drugs.	
	(20 marks)	
4.	Write briefly on:	
4A.	Aminopenicillins	
4B.	Metronidazole	
4C.	Cyclophosphamide	
4D.	Immunostimulants.	
	$(10 \times 4 = 40 \text{ marks})$	