MANIPAL ACADEMY OF HIGHER EDUCATION (Deemed University)

MSc (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2002

Maximum Marks: 100

PAPER	Ι	:	GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, EXPERIMENTAL PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIOSTATISTICS Monday, July 01, 2002
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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.

Discuss the methods of elimination of drugs and add a note on factors affecting renal 1. elimination of drugs.

(20 marks)

2. Discuss the methods to evaluate a new compound for its anticonvulsant activity.

(20 marks)

Discuss the Transmembrane signaling mechanisms in drug action.

(20 marks)

Write briefly on: $(10 \times 4 = 40 \text{ marks})$

4B. Essential drug concept 4C. Acute toxicity studies

Time available: 3 Hours

3.

4.

4A. Placebo

4D. Targeted drug delivery system

MANIPAL ACADEMY OF HIGHER EDUCATION (Deemed University)

MSc (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2002

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

Tuesday, July	02, 2002
Time available: 3 Hours	Maximum Marks: 100

- 1A. Diagrammatically depict the Renin angiotenoin-aldosterone system and show the site of action of drugs affecting this system.
- 1B. Discuss the pharmacological actions, uses and adverse effects of ACE inhibitions. (20 marks)
- 2. Classify local anaesthetics. Describe the mechanism of action, uses and adverse effects of local anaesthetics.
- 3. Discuss the mechanism of action of drugs useful in angina pectoris.
- (20 marks)
- (20 marks)

- Write briefly on: 4.

 - (10x4 = 40 marks)
- 4A. Atypical Antipsychotics
- 4B. Protone pump inhibitors

4D. Cox2 inhibitors

4C. Alpha2 agonists

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MSc (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2002

PAPER III : SYSTEMIC PHARMACOLOGY: CHEMOTHERAPY, IMMUNOTHERAPY, ENDOCRINES AND MISCELLANEOUS Wednesday, July 03, 2002

 Classify drugs useful in the treatment of diabetes mellitus. Discuss the mechanism of action, uses and adverse effects or oral antidiabetics.

Depicting the life cycle of malaria parasite mark the site of action of antimalarial drugs. Add a
note on Chemotherapy of malaria.
 (20 marks)

 Classify drugs useful in tuberculosis. Discuss the rationale for combining drugs in tuberculosis. Write a commonly used treatment ragimen for pulmonary tuberculosis.
 (20 marks)

4. Write briefly on:

Time available: 3 Hours

 $(10 \times 4 = 40 \text{ marks})$

Maximum Marks: 100

(20 marks)

- 4A. Antiandrogens
- 4B. Aminopenicillins
- 4C. Bisphosponates
- 4D. Albendazole

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MSc (FINAL) PHARMACOLOGY DEGREE EXAMINATION - DECEMBER 2002

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

Monday, December 02, 2002

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. Describe various processes of biotransformation with examples.

(20 marks)

2. Explain the procedures to evaluate a new chemical entity having analgesic action.

(20 marks)

3. Give an account of drug dependence.

(20 marks)

4. Write briefly on:

 $(10 \times 4 = 40 \text{ marks})$

- 4A. Newer drug delivery systems
- 4B. Pharmacokinetic drug interaction
- 4C. ANOVA
- 4D. Therapeutic index.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MSc (FINAL) PHARMACOLOGY DEGREE EXAMINATION – DECEMBER 2002

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

Tuesday, December 03, 2002

Time	e available: 3 Hours	Maximum Marks: 100
1.	Explain the adrenergic transmission and how drugs can modify it.	
		(20 marks)
2.	Discuss the mechanism of action, adverse effects and uses of the salicy	ylates.
		(20 marks)
3.	Explain the physiology of gastric acid secretion and discuss the advan	tages and disadvantages
	of antisecretory drugs.	(20 marks)
4.	Write briefly on:	
٦.	write briefly oil.	(10x4 = 40 marks)
4A.	Fibrinolytics	
4B.	Frusemide	
4C.	Sodium cromolglycate	
4D.	Ondensetron.	



MANIPAL ACADEMY OF HIGHER EDUCATION (Deemed University)

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PAPER III:	SYSTEMIC PHARMACOLOGY: CHEMOTHERAPY, IMMUNOTHERAPY,

ENDOCRINES AND MISCELLANEOUS TOPICS Wednesday, December 04, 2002

Time available: 3 Hours Maximum Marks: 100

Explain the mechanism of action, therapeutic uses and adverse effects of tetracyclines.

Explain the general principles in cancer chemotherapy and add a note on general toxicity of

cytotoxic drugs. (20 marks)

Explain the Pharmacological actions and adverse effects of glucocorticoids. 3.

(20 marks)

Write briefly on: 4.

 $(10 \times 4 = 40 \text{ marks})$

(20 marks)

4A. Anabolic steroids

4B. Preparations of insulin 4C. Third generation Cephalosporins

4D. Newer macrolides.

1.

MSc (FINAL) PHARMACOLOGY DEGREE EXAMINATION - DECEMBER 2002